MASSACHUSETTS AMBULANCE
TRIP RECORD INFORMATION SYSTEM
(MATRIS)

May 2006 (updated June 2006)

MATRIS Draft Version 1.1

The Proposed Massachusetts Ambulance Trip Record Information System **(MATRIS)** is based on the National Highway Traffic Safety Administration's (NHTSA) EMS Dataset Version 2.2.1. The NHTSA Dataset was created through a consensus based national data conference of professional organizations and federal partners which included the National Association of State EMS Directors and the Trauma/EMS Systems program of the Health Resources and Services Administration's (HRSA) Maternal Child Health Bureau and is known as **NEMSIS**, the National EMS Information System.

The goal of **NEMSIS** is to provide a standard for the collection of local, state, and federal data with consistent definitions and formatting suitable to evaluate the responsiveness and effectiveness of emergency medical services. High quality data will assist EMS agencies to identify service areas that need further improvement and promote decision making, protocol refinement, and resource allocation based on solid evidence.

In attached the proposed Massachusetts Ambulance Trip Record Information System **(MATRIS)**, those data elements to be collected as part of a National EMS Database **are labeled** *National Element* in the upper right hand corner. The additional data elements proposed for **MATRIS** are **not labeled** *National Element*. The dataset includes three separate components. A Demographic Dataset provides a standardized set of definitions describing an EMS System. An EMS Dataset provides a standardized set of definitions describing an EMS event, and an XML format and definition created to promote the movement of the **NEMSIS** Version 2.2.1 uniform data elements between data systems. Please see www.nemsis.org for more information.

Information provided in this document includes the following:

✱ Name of the Data Element
✱ Definition of the Data Element
✱ Data Type of the Data Element
✱ How to deal with missing or incomplete information
✱ The Variables associated with each Data Element
✱ What Data Elements are associated with the Data Element
✱ Whether the Data Element is part of the medical record information (Trip Report) or is a quality management Data Element to be used internally by the EMS system and protected by Peer Review.
✱ What Reports are possible through the use of the Data Element
✱ Who is responsible for collecting the Data Element
✱ How the Data Element is related to other National Data Tools such as NHTSA Version 1, NFIRS, and Utstein

Table of Contents

Section D01

Agency General Information

EMS AGENCY NUMBER

Data Format [text]   *National Element*

Definition
The state-assigned provider number of the responding agency

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *EMSAgencyNumber*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD Yes   **Minimum Constraint**   3   **Maximum Constraint**   15

Field Values
A unique value; no variable list is possible.

Additional Information
- All EMS Agency demographic information is associated with the EMS agency number
- Not Nullable. A unique value must be provided to create a unique record ID within a database
- The same as EMS Agency Number (E02_01). This could be used to auto fill E02_01 on the Patient Care Report
- This data element is unique and is typically sequential

Uses
- Agency number (E02_01), agency state (D01_03),unit call sign (E02_12), patient number (E01_01) and date (E05_04) combine to create a unique identifier

Data Collector
- Typically generated by the State EMS Regulatory Office. Collected by the EMS agency or auto-generated by the EMS agency specific software.

Other Associated Elements
D01_01   EMS Agency Number

References in NHTSA Version 1
Desirable Element 23   Patient Care Record Number

References to Other Databases
- NFIRS 5.0 EMS Module; Title: Patient Number

EMS AGENCY STATE

Data Format [combo] multiple-choice   *National Element*

Definition
The state in which the Agency provides services

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *AgencyState*
Multiple Entry Configuration   Yes   **Accepts Null**   No
Required in XSD Yes   **Minimum Constraint   2**   **Maximum Constraint   2**

Field Values
- Appropriate 2 digit FIPS code

Additional Information
- 2 digit FIPS numeric code (Not State abbreviation)
- Not Nullable. A unique value must be provided to create a unique record ID within a database

Uses
- Agency number (E02_01), agency state (D01_03),unit call sign (E02_12), patient number (E01_01) and date (E05_04) combine to create a unique identifier

Data Collector
- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01   EMS Agency Number

References to Other Databases
- NFIRS 5.0 EMS Module, Title: State

EMS AGENCY COUNTY

Data Format [combo] multiple-choice   *National Element*

Definition
The county(s) for which the agency formally provides service

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *AgencyCounty*
Multiple Entry Configuration   Yes   **Accepts Null**   No
Required in XSD Yes   **Minimum Constraint   5**   **Maximum Constraint   5**

Field Values
- Appropriate 5 digit FIPS code

Additional Information
- Stored as a 5 digit FIPS code (combining the state and county code) to take into account agencies may serve more than one state and counties are often named the same from state to state

Uses
- Used to group data with a state

Data Collector
- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01   EMS Agency Number

LEVEL OF SERVICE

D01_07

Data Format [combo] single-choice   *National Element*

Definition

The highest credentialed personnel's level of service which the agency provides for every EMS encounter if requested. In a tiered response system, this is the highest level of service which could be sent to any specific call.

XSD Data Type *xs:string/integer*   **XSD Domain (Simple Type)** *DemographicStateCertificationLicensureLevels*
Multiple Entry Configuration No   **Accepts Null** No
Required in XSD Yes   **Minimum Constraint 2**   **Maximum Constraint 30**

Field Values
6090 EMT-Basic   **6100** EMT-Intermediate
6110 EMT-Paramedic   **6111** Nurse
6112 Physician   **6120** First Responder

Additional Information
- This list can be edited by each state to account for additional certification/licensure level by adding levels as listed in State Certification/Licensure Levels (D04_01). State Certification/Licensure levels (D04_01) should create the list for this item

- This value is stored either as the appropriate code or in text if an additional certification/licensure level has been entered by a state

Uses
- Allows data to be sorted based on an agency's level of service
- Provides description of EMS Personnel
- Provides descriptive information when combined with an EMS Agency's Billing Status

Data Collector
- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01 EMS Agency Number

References in NHTSA Version 1
Essential   Element 29   Crew Member One Type
Essential   Element 30   Crew Member Two Type
Desirable   Element 31   Crew Member Three Type

References to Other Databases
- NFIRS 5.0 EMS Module, Title: Highest Level of Provider on Scene by Fire Department, Pick-List: First Responder = 1, EMT-B (Basic) = 2, EMT-I (Intermediate) = 3, EMT-P (Paramedic) = 4, Other Health Care Provider, Include Doctors, Nurses = O, No Care Provided = N

- NFIRS 5.0 EMS Module, Title: Initial Level of FD Provider, Pick-List: First Responder = 1, EMT-B (Basic) = 2, EMT-I (Intermediate) = 3, EMT-P (Paramedic) = 4, Other Health Care Provider, Includes Doctors, Nurses, etc. = O, No Training = N

ORGANIZATIONAL TYPE

D01_08

Data Format [combo] single-choice   *National Element*

Definition

The organizational structure from which EMS services are delivered (fire, hospital, county, etc.)

XSD Data Type *xs:string*   **XSD Domain (Simple Type)** *OrganizationalType*
Multiple Entry Configuration No   **Accepts Null** No
Required in XSD Yes

Field Values
5810 Community, Non-Profit   **5820** Fire Department
5830 Governmental, Non-Fire   **5840** Hospital
5850 Private, Non_Hospital   **5860** Tribal

Uses
- Allows data to be sorted based on an agency's organizational structure
- Provides description of EMS agencies across the nation

Data Collector
- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01 EMS Agency Number

ORGANIZATION STATUS

D01_09

Data Format [combo] single-choice   *National Element*

Definition

The primary organizational status of the agency. The definition of Volunteer or Non-Volunteer is based on state or local terms.

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *OrganizationStatus*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD   Yes

Field Values
5870 Mixed   **5880** Non-Volunteer
5890 Volunteer

Uses
- Allows data to be sorted based on an agency's organizational status
- Provides description of EMS agencies across the nation

Data Collector
- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01   EMS Agency Number

STATISTICAL YEAR

D01_10

Data Format [date/time]   *National Element*

Definition

The year to which the information pertains

XSD Data Type   *xs:gYear*   **XSD Domain (Simple Type)** *StatisticalYear*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   No
Required in XSD Yes   **Minimum Constraint** **1,990**   **Maximum Constraint** **2,030**
XSD Structure: D01_10, D01_12, D01_13, D01_14, D01_15, D01_16, D01_17, and D01_18 are all members of D1_10_0 Statistical
Year Structure

Field Values
A unique value; no variable list is possible.

Additional Information
- Format [YYYY]
- Multiple entry configuration to allow statistical data to be entered yearly
- Used to identify the year to which the data pertains

Uses
- Associates a year with statistical data to improve reporting capabilities

Data Collector
- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

D01_01	EMS Agency Number	**D01_12**	Total Service Size Area
D01_13	Total Service Area Population	**D01_14**	911 Call Volume per Year
D01_15	EMS Dispatch Volume per Year	**D01_16**	EMS Transport Volume per Year
D01_17	EMS Patient Contact Volume per Year	**D01_18**	EMS Billable Calls per Year
E02_01	EMS Agency Number		

Section D01   Agency General Information   **Page 7 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Section D01   Agency General Information   **Page 8 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

TOTAL SERVICE SIZE AREA

D01_12

Data Format [number]   *National Element*

Definition

    The total square miles in the agency's service area

XSD Data Type   *xs:positiveInteger*   **XSD Domain (Simple Type)** *TotalServiceSizeArea*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint**   1   **Maximum Constraint** 100,000,000
    XSD Structure: D01_10, D01_12, D01_13, D01_14, D01_15, D01_16, D01_17, and D01_18 are all members of D1_10_0 Statistical Year Structure

Field Values

    A unique value; no variable list is possible.

Additional Information

    ● Multiple entry configuration to allow statistical data to be entered yearly

Uses

    ● Allows data to be sorted based on an agency's service area size
    ● Provides description of EMS agencies across the nation

Data Collector

    ● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

D01_01	EMS Agency Number	**D01_10**	Statistical Year
D01_13	Total Service Area Population	**D01_14**	911 Call Volume per Year
D01_15	EMS Dispatch Volume per Year	**D01_16**	EMS Transport Volume per Year
D01_17	EMS Patient Contact Volume per Year	**D01_18**	EMS Billable Calls per Year

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TOTAL SERVICE AREA POPULATION

D01_13

Data Format [number]   *National Element*

Definition

    The total population in the agency's service area based on year 2000 census data (if possible). This number does not include population changes associated with daily work flow or seasonal movements

XSD Data Type   *xs:positiveInteger*   **XSD Domain (Simple Type)** *TotalServiceAreaPopulation*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint**   1   **Maximum Constraint** 100,000,000
    XSD Structure: D01_10, D01_12, D01_13, D01_14, D01_15, D01_16, D01_17, and D01_18 are all members of D1_10_0 Statistical Year Structure

Field Values

    A unique value; no variable list is possible.

Additional Information

    ● Baseline data should be taken from the 2000 Census data if possible
    ● Multiple entry configuration to allow statistical data to be entered yearly

Uses

    ● Allows data to be sorted based on an agency's service area population
    ● Provides description of EMS agencies across the nation

Data Collector

    ● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

D01_01	EMS Agency Number	**D01_10**	Statistical Year
D01_12	Total Service Size Area	**D01_14**	911 Call Volume per Year
D01_15	EMS Dispatch Volume per Year	**D01_16**	EMS Transport Volume per Year
D01_17	EMS Patient Contact Volume per Year	**D01_18**	EMS Billable Calls per Year

911 CALL VOLUME PER YEAR

D01_14

Data Format [number]   *National Element*

Definition
   The number of 911 EMS calls for the calendar year

XSD Data Type   *xs:positiveInteger*   **XSD Domain (Simple Type)** *CallVolumeYear911*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint** 1   **Maximum Constraint** 100,000,000
XSD Structure: D01_10, D01_12, D01_13, D01_14, D01_15, D01_16, D01_17, and D01_18 are all members of D1_10_0 Statistical
Year Structure

Field Values
      A unique value; no variable list is possible.

Additional Information
   ● Multiple entry configuration to allow statistical data to be entered yearly

Uses
   ● Allows data to be sorted based on an agency's 911 call volume per year
   ● Provides description of EMS agencies across the nation

Data Collector
   ● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01	EMS Agency Number	**D01_10**	Statistical Year
D01_12	Total Service Size Area	**D01_13**	Total Service Area Population
D01_15	EMS Dispatch Volume per Year	**D01_16**	EMS Transport Volume per Year
D01_17	EMS Patient Contact Volume per Year	**D01_18**	EMS Billable Calls per Year

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EMS DISPATCH VOLUME PER YEAR

D01_15

Data Format [number]   *National Element*

Definition
   The number of EMS dispatches for the calendar year

XSD Data Type   *xs:positiveInteger*   **XSD Domain (Simple Type)** *EMSDispatchVolumeYear*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint** 1   **Maximum Constraint** 100,000,000
XSD Structure: D01_10, D01_12, D01_13, D01_14, D01_15, D01_16, D01_17, and D01_18 are all members of D1_10_0 Statistical
Year Structure

Field Values
      A unique value; no variable list is possible.

Additional Information
   ● Multiple entry configuration to allow statistical data to be entered yearly

Uses
   ● Allows data to be sorted based on an agency's Dispatch volume per year
   ● Provides description of EMS agencies across the nation

Data Collector
   ● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01	EMS Agency Number	**D01_10**	Statistical Year
D01_12	Total Service Size Area	**D01_13**	Total Service Area Population
D01_14	911 Call Volume per Year	**D01_16**	EMS Transport Volume per Year
D01_17	EMS Patient Contact Volume per Year	**D01_18**	EMS Billable Calls per Year

EMS TRANSPORT VOLUME PER YEAR

Data Format [number]   *National Element*

Definition

The number of EMS transports for the calendar year

XSD Data Type   *xs:positiveInteger*   **XSD Domain (Simple Type)** *EMSTransportVolumeYear*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint** 1   **Maximum Constraint** 100,000,000
XSD Structure: D01_10, D01_12, D01_13, D01_14, D01_15, D01_16, D01_17, and D01_18 are all members of D1_10_0 Statistical Year Structure

Field Values

A unique value; no variable list is possible.

Additional Information
- Multiple entry configuration to allow statistical data to be entered yearly

Uses
- Allows data to be sorted based on an agency's Transport volume per year
- Provides description of EMS agencies across the nation

Data Collector
- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

D01_01	EMS Agency Number	**D01_10**	Statistical Year
D01_12	Total Service Size Area	**D01_13**	Total Service Area Population
D01_14	911 Call Volume per Year	**D01_15**	EMS Dispatch Volume per Year
D01_17	EMS Patient Contact Volume per Year	**D01_18**	EMS Billable Calls per Year

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EMS PATIENT CONTACT VOLUME PER YEAR

Data Format [number]   *National Element*

Definition

The number of EMS patient contacts for that calendar year

XSD Data Type   *xs:positiveInteger*   **XSD Domain (Simple Type)** *EMSPatientContactVolumeYear*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint** 1   **Maximum Constraint** 100,000,000
XSD Structure: D01_10, D01_12, D01_13, D01_14, D01_15, D01_16, D01_17, and D01_18 are all members of D1_10_0 Statistical Year Structure

Field Values

A unique value; no variable list is possible.

Additional Information
- Multiple entry configuration to allow statistical data to be entered yearly

Uses
- Allows data to be sorted based on an agency's Patient Contact volume per year
- Provides description of EMS agencies across the nation

Data Collector
- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements

D01_01	EMS Agency Number	**D01_10**	Statistical Year
D01_12	Total Service Size Area	**D01_13**	Total Service Area Population
D01_14	911 Call Volume per Year	**D01_15**	EMS Dispatch Volume per Year
D01_16	EMS Transport Volume per Year	**D01_18**	EMS Billable Calls per Year

EMS AGENCY TIME ZONE

Data Format [text]   *National Element*

Definition
   The time zone for the EMS Agency

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *EMSAgencyTimeZone*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD Yes

Field Values
5900 GMT-11:00 Midway Island, Samoa   **5910** GMT-10:00 Hawaii
5920 GMT-09:00 Alaska   **5930** GMT-08:00 Pacific Time
5940 GMT-07:00 Mountain Time   **5950** GMT-06:00 Central Time
5960 GMT-05:00 Eastern Time   **5970** GMT-04:00 Atlantic Time

Uses
   ● Allows data to be tracked in comparison to other systems and times to better correlate in any analysis

Data Collector
   ● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
   D01_01   EMS Agency Number

NATIONAL PROVIDER IDENTIFIER

Data Format [text]   *National Element*

Definition
   The National Provider Identifier associated with National Provider System (NPS) and used in all standard HIPAA transactions such
   as electronic claim filing.

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *NationalProviderIdentifier*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes   **Minimum Constraint**   3   **Maximum Constraint**   10

Field Values
   -25 Not Applicable   **-15** Not Reporting
   -10 Not Known   **-5** Not Available

Additional Information
   ● The National Provider Identifier is associated with the EMS agency number
Uses
   ● Important for HIPAA related transactions such as electronic claims processing
Data Collector
   ● Generated by the National Provider System within the United States Department of Health and Human Services.
     Collected by the EMS agency or auto-generated by the EMS agency specific software.

Other Associated Elements
   D01_01   EMS Agency Number

Agency Configuration Information

PROCEDURES

Data Format [combo] multiple-choice

Definition
   A list of all procedures that the agency has implemented and available for use.

XSD Data Type *xs:decimal*   **XSD Domain (Simple Type)** *DemographicProcedure*
Multiple Entry Configuration Yes, via structure   **Accepts Null**   No
Required in XSD No   **Minimum Constraint** **0**   **Maximum Constraint** **1,000**
XSD Structure: D04_04 and D04_05 are members of D04_04_0 Demographic Procedure Structure

Field Values

89.820 12 Lead ECG		**93.930** Airway-Bagged	
93.931 Airway-BVM		**97.230** Airway-Change Tracheostomy Tube	
98.130 Airway-Cleared		**96.051** Airway-Combitube	
93.900 Airway-CPAP		**96.030** Airway-EOA/EGTA	
96.991 Airway-Intubation Confirm CO2		**96.992** Airway-Intubation Confirm Esophageal Bulb	
96.052 Airway-Laryngeal Mask		**96.010** Airway-Nasal	
96.041 Airway-Nasotracheal Intubation		**93.940** Airway-Nebulizer Treatment	
31.110 Airway-Needle Cricothyrotomy		**96.020** Airway-Oral	
96.040 Airway-Orotracheal Intubation		**96.790** Airway-PEEP	
96.042 Airway-Rapid Sequence Induction		**93.910** Airway-Respirator Operation (BLS)	
98.150 Airway-Suctioning		**31.120** Airway-Surgical Cricothyrotomy	
96.700 Airway-Ventilator Operation		**96.701** Airway-Ventilator with PEEP	
38.910 Arterial Access-Blood Draw		**89.610** Arterial Line Maintenance	
89.700 Assessment-Adult		**89.701** Assessment-Pediatric	
38.995 Blood Glucose Analysis		**89.391** Capnography	
89.510 Cardiac Monitor		**99.624** Cardiac Pacing-External	
99.626 Cardiac Pacing-Transvenous		**99.623** Cardioversion	
99.640 Carotid Massage		**34.041** Chest Decompression	
34.042 Chest Tube Placement		**73.590** Childbirth	
1.181 CNS Catheter-Epidural Maintenance		**1.182** CNS Catheter-Intraventricular Maintenance	
99.600 CPR		**99.601** CPR by External Automated Device	
86.280 Decontamination		**99.621** Defibrillation-Automated (AED)	
99.622 Defibrillation-Manual		**99.625** Defibrillation-Placement for Monitoring/Analysis	
100.200 Extrication		**99.290** Injections-SQ/IM	
37.611 Intra-Aortic Balloon Pump		**93.580** MAST	
96.070 Nasogastric Tube Insertion		**89.590** Orthostatic Blood Pressure Measurement	
89.702 Pain Measurement		**89.392** Pulse Oximetry	
100.100 Rescue		**99.841** Restraints-Pharmacological	
99.842 Restraints-Physical		**93.591** Spinal Immobilization	
93.540 Splinting-Basic		**93.450** Splinting-Traction	
89.703 Temperature Measurement		**89.704** Thrombolytic Screen	
57.940 Urinary Catheterization		**38.990** Venous Access-Blood Draw	
89.620 Venous Access-Central Line Maintenance		**39.997** Venous Access-Discontinue	
38.991 Venous Access-Existing Catheter		**38.993** Venous Access-External Jugular Line	
38.992 Venous Access-Extremity		**38.994** Venous Access-Femoral Line	
39.995 Venous Access-Internal Jugular Line		**41.920** Venous Access-Intraosseous Adult	

41.921 Venous Access-Intraosseous Pediatric
89.640 Venous Access-Swan Ganz Maintenance

39.996 Venous Access-Subclavian Line
93.057 Wound Care

Additional Information
- A multiple-entry configuration with Personnel Level Permitted to use the Procedure (D04_05)
- If local systems have procedures which are not listed in the current values, additional procedures may be added using CPT codes from the ICD-9 standard. The CPT code should be stored and passed via the XML. This will allow expansion of the list to formally add new procedures over time
- Used to create a list box for Procedure (E19_03)

Uses
- Allows data to be sorted based on an agency's Procedure capabilities
- Provides descriptive information when combined with an EMS Agency's Billing Status
- Used to create a list box for Response to Procedure (E19_08)

Data Collector
- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01 EMS Agency Number

D04_05 Personnel Level Permitted to Use the Procedure

References in NHTSA Version 1
Desirable Element 58   Time of First CPR
Desirable Element 63   Time of First Defibrillatory Shock
Essential Element 78   Procedure or Treatment Name

References to Other Databases
- NFIRS 5.0 EMS Module, Title: Procedures Used, Multi Select List: Airway Insertion = 01, Anti-Shock Trousers = 02, Assisted Ventilation = 03, Bleeding Control = 04, Burn Care = 05, Cardiac Pacing = 06, Cardioversion (defib), Manual = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN

MEDICATIONS GIVEN

Data Format [text] multiple-entry

Definition
A list of all medications the agency has implemented and available for use

XSD Data Type *xs:string*   **XSD Domain (Simple Type)** *DemographicMedicationsGiven*
Multiple Entry Configuration Yes, via structure   **Accepts Null**   No
Required in XSD No   **Minimum Constraint** **2**   **Maximum Constraint** **30**
XSD Structure: D04_06 and D04_07 are members of D04_06_0 Demographic Medication Structure

Field Values
A unique value; no variable list is possible.

Additional Information
- At this time a national drug index or coding scheme, which would allow for a single code to be assigned to a single drug, does not exist
- The Drug List may contain any generic or trade name of a drug approved by the FDA and administered by EMS. The medication is stored and passed via XML in a text format
- Used to create a list box for Medication Given (E18_03) and Prior Aid (E09_01)

Uses
- Allows data to be sorted based on an agency's Medication capabilities
- Could be used to create a list box for Medication Given (E18_03) and Prior Aid (E09_01)
- Provides descriptive information when combined with an EMS Agency's Billing Status

Data Collector
- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01 EMS Agency Number

D04_07 Personnel Level Permitted to Use the Medication

References in NHTSA Version 1
Essential Element 80   Medication Name

References to Other Databases
- NFIRS 5.0 EMS Module, Title: Procedures Used, Multi Select List: Airway Insertion = 01, Anti-Shock Trousers = 02, Assisted Ventilation = 03, Bleeding Control = 04, Burn Care = 05, Cardiac Pacing = 06, Cardioversion (defib), Manual = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN

Section D04   Agency Configuration Information   **Page 19 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Section D04   Agency Configuration Information   **Page 20 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

DESTINATION FACILITY NUMBER

D04_14

Data Format [text]

Definition

The state assigned licensure number (code) for each Other Destination (D04_13)

XSD Data Type *xs:string*   **XSD Domain (Simple Type)** *FacilityNumber*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes
Required in XSD No   **Minimum Constraint** 2   **Maximum Constraint** 30
XSD Structure: D04_13, D04_14 and D04_15 are members of D04_13_0 Other Destinations Structure

Field Values

A unique value; no variable list is possible.   **-25** Not Applicable
-10 Not Known   **-5** Not Available

Additional Information
- Multiple entry configuration to create a list box for Incident Facility Code (E8_08) and Destination Transferred to Code (E20_02)
- This field could also provide linkage to Other Destinations (D04_13) which would allow a list box of Other Destination Names to be used instead of entering the Code directly

Uses
- Allows data to be sorted or grouped based on the EMS transports destination type
- Could be used to create a list box (along with D04_12) for Incident Facility Code (E08_08) and Destination Transferred to Code (E20_02)

Data Collector
- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01   EMS Agency Number   **D04_13**   Other Destinations
D04_15   Destination Type   **E00**   Common Null Values

DESTINATION TYPE

D04_15

Data Format [combo] single-choice

Definition

The type of facility associated with the Other Destination (D04_13)

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *FacilityType*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   No
Required in XSD No
XSD Structure: D04_13, D04_14 and D04_15 are members of D04_13_0 Other Destinations Structure

Field Values
7270 Home   **7280** Hospital
7290 Medical Office/Clinic   **7300** Morgue
7320 Nursing Home   **7330** Other
7340 Other EMS Responder (air)   **7350** Other EMS Responder (ground)
7360 Police/Jail

Additional Information
- Can be used to auto-fill Type of Destination (E20_17) based on Other Destination (D04_13) or Destination Facility Number (D04_14)

Uses
- Allows data to be sorted based on an agency's Destination Type
- Allows data to be sorted or grouped based on the EMS transports destination type
- Provides a component of a list box associated with Other Destinations (D04_13)
- Provides description of EMS Agency's Destination Types

Data Collector
- EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
D01_01   EMS Agency Number   **D04_13**   Other Destinations
D04_14   Destination Facility Number

References in NHTSA Version 1
Essential   Element 44   Destination/Transferred To

Section D04   Agency Configuration Information   **Page 21 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Section D04   Agency Configuration Information   **Page 22 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Record Information

PATIENT CARE REPORT NUMBER

Data Format [text]   *National Element*

Definition

The unique number automatically assigned by the EMS agency for each patient care report (PCR). This is a unique number to the EMS agency for all of time.

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *PatientCareReportNumber*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD Yes   **Minimum Constraint   3**   **Maximum Constraint   32**

Field Values

A unique value; no variable list is possible.

Additional Information

● Not Nullable. A unique value must be provided to create a unique record ID within a database

Uses

● A component of the EMS Medical Record: Patient Care Report
● Agency number (E02_01), agency state (D01_03),unit call sign (E02_12), patient number (E01_01) and date (E05_04) combine to create a unique identifier

Data Collector

● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements

E01_01   Patient Care Report Number

References in NHTSA Version 1

Desirable   Element 23   Patient Care Record Number

References to Other Databases

● NFIRS 5.0 EMS Module; Title: Patient Number; Unique Number

SOFTWARE CREATOR

E01_02

Data Format [text]   *National Element*

Definition
    The name of the software vendor by whom the data collection software was developed

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *SoftwareCreatedBy*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD Yes   **Minimum Constraint**   3   **Maximum Constraint**   30

Field Values
    A unique value; no variable list is possible.

Uses
    ● Important for grouping or comparing the accuracy of software used by EMS agencies in data collection

Data Collector
    ● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
    E01_01   Patient Care Report Number

SOFTWARE NAME

E01_03

Data Format [text]   *National Element*

Definition
    The name of the software package with which the data was collected by the agency

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *SoftwareName*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD Yes   **Minimum Constraint**   3   **Maximum Constraint**   30

Field Values
    A unique value; no variable list is possible.

Uses
    ● Important for grouping or comparing the accuracy of software used by EMS agencies in data collection

Data Collector
    ● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
    E01_01   Patient Care Report Number

Section E01   *Record Information*   **Page 25 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Section E01   *Record Information*   **Page 26 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

SOFTWARE VERSION

E01_04

Data Format [text]   *National Element*

Definition
   The version of the software used by the agency to collect the data

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *SoftwareVersion*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD Yes   **Minimum Constraint**   3   **Maximum Constraint**   30

Field Values
   A unique value; no variable list is possible.

Uses
   ● Important for grouping or comparing the accuracy of software used by EMS agencies in data collection

Data Collector
   ● EMS Agency and typically only documented once then verified and updated yearly or when changed

Other Associated Elements
   E01_01   Patient Care Report Number

Unit/ Agency Information

EMS AGENCY NUMBER

E02_01

Data Format [text]   *National Element*

Definition
The state-assigned provider number of the responding agency

XSD Data Type *xs:string*   **XSD Domain (Simple Type)** *EMSAgencyNumber*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD Yes   **Minimum Constraint** 3   **Maximum Constraint** 15

Field Values
A unique value; no variable list is possible.

Additional Information
- Not Nullable. A unique value must be provided to create a unique record ID within a database
- Same as EMS Agency Number (D01_01)

Uses
- A component of the EMS Medical Record: Patient Care Report
- Agency number (E02_01), agency state (D01_03),unit call sign (E02_12), patient number (E01_01) and date (E05_04) combine to create a unique identifier
- Allows data to be sorted by the EMS Agency
- Important for grouping and comparing EMS Agencies in Benchmarking and Quality Management
- When linked to D01_02 provides the Agency name on the EMS Medical Record: Patient Care Report

Data Collector
- Typically generated by the State EMS Regulatory Office. Collected by the EMS agency or auto-generated by the EMS agency specific software.

Other Associated Elements
E01_01   Patient Care Report Number

References to Other Databases
- NFIRS 5.0 EMS Module;Title: FDID; State assigned Fire Department ID number

TYPE OF SERVICE REQUESTED

E02_04

Data Format [combo] single-choice   *National Element*

Definition
The type of service or category of service requested of the EMS service responding for this specific EMS incident.

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *TypeOfServiceRequested*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD Yes

Field Values
30 911 Response (Scene)   **35** Intercept
40 Interfacility Transfer   **45** Medical Transport
50 Mutual Aid   **55** Standby

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted by the Type of Service Requested
- Provides descriptive data on EMS call volume and service provided

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E01_01   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 20   Service Type

PRIMARY ROLE OF THE UNIT

E02_05

Data Format [combo] single-choice   *National Element*

Definition

The primary role of the EMS service which was requested for this specific EMS incident.

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *PrimaryRollOfTheUnit*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD Yes

Field Values
60 Non-Transport   65 Rescue
70 Supervisor   75 Transport

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted by the role of the responder
● Provides descriptive data on EMS call volume and service provided

Data Collector
● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E01_01   Patient Care Report Number

TYPE OF DISPATCH DELAY

E02_06

Data Format [combo] multiple-choice   *National Element*

Definition

The dispatch delays, if any, associated with the dispatch of the EMS unit to the patient encounter

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *TypeOfDispatchDelay*
Multiple Entry Configuration   Yes   **Accepts Null**   Yes
Required in XSD Yes

Field Values
-25 Not Applicable   -15 Not Reporting
-10 Not Known   -5 Not Available
 80 Caller (Uncooperative)   85 High Call Volume
 90 Language Barrier   95 Location (Inability to Obtain)
100 No Units Available   105 None
110 Other   115 Scene Safety (Not Secure for EMS)
120 Technical Failure (Computer, Phone etc.)

Uses
● Allows data to describe the status of Dispatch issues

Data Collector
● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
E00   Common Null Values   E01_01   Patient Care Report Number

References in NHTSA Version 1
Desirable Element 56   Factors Affecting EMS Delivery of Care

TYPE OF RESPONSE DELAY

E02_07

Data Format [combo] multiple-choice   *National Element*

Definition

The response delays, if any, of the unit associated with the patient encounter

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *TypeOfResponseDelay*
Multiple Entry Configuration   Yes   **Accepts Null**   Yes
Required in XSD Yes

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
125 Crowd	**130** Directions
135 Distance	**140** Diversion
145 HazMat	**150** None
155 Other	**160** Safety
165 Staff Delay	**170** Traffic
175 Vehicle Crash	**180** Vehicle Failure
185 Weather	

Uses
- Allows data describe Vehicle Failures and Vehicle Crashes
- Allows data to describe the status of Response issues

Data Collector
- EMS personnel

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Desirable Element 56   Factors Affecting EMS Delivery of Care

TYPE OF SCENE DELAY

E02_08

Data Format [combo] multiple-choice   *National Element*

Definition

The scene delays, if any, of the unit associated with the patient encounter

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *TypeOfSceneDelay*
Multiple Entry Configuration   Yes   **Accepts Null**   Yes
Required in XSD Yes

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
190 Crowd	**195** Directions
200 Distance	**205** Diversion
210 Extrication >20 min.	**215** HazMat
220 Language Barrier	**225** None
230 Other	**235** Safety
240 Staff Delay	**245** Traffic
250 Vehicle Crash	**255** Vehicle Failure
260 Weather	

Uses
- Allows data describe Vehicle Failures and Vehicle Crashes
- Allows data to describe the status of Scene issues

Data Collector
- EMS personnel

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Desirable Element 56   Factors Affecting EMS Delivery of Care

TYPE OF TRANSPORT DELAY

E02_09

Data Format [combo] multiple-choice   *National Element*

Definition

The transport delays, if any, of the unit associated with the patient encounter

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *TypeOfTransportDelay*
Multiple Entry Configuration   Yes   **Accepts Null**   Yes
Required in XSD Yes

Field Values

-25	Not Applicable	**-15**	Not Reporting
-10	Not Known	**-5**	Not Available
265	Crowd	**270**	Directions
275	Distance	**280**	Diversion
285	HazMat	**290**	None
295	Other	**300**	Safety
305	Staff Delay	**310**	Traffic
315	Vehicle Crash	**320**	Vehicle Failure
325	Weather		

Uses

- Allows data describe Vehicle Failures and Vehicle Crashes
- Allows data to describe the status of Transport issues

Data Collector

- EMS personnel

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1

Desirable Element 56   Factors Affecting EMS Delivery of Care

TYPE OF TURN-AROUND DELAY

E02_10

Data Format [combo] multiple-choice   *National Element*

Definition

The turn-around delays, if any, associated with the EMS unit associated with the patient encounter

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *TypeOfTurnAroundDelay*
Multiple Entry Configuration   Yes   **Accepts Null**   Yes
Required in XSD Yes

Field Values

-25	Not Applicable	**-15**	Not Reporting
-10	Not Known	**-5**	Not Available
330	Clean-up	**335**	Decontamination
340	Documentation	**345**	ED Overcrowding
350	Equipment Failure	**355**	Equipment Replenishment
360	None	**365**	Other
370	Staff Delay	**375**	Vehicle Failure

Uses

- Allows data describe ED overcrowding and Vehicle Failure
- Allows data to describe the status of call time issues

Data Collector

- EMS personnel

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

EMS UNIT CALL SIGN (RADIO NUMBER)

Data Format [combo] single-choice   *National Element*

Definition

> The EMS unit number used to dispatch and communicate with the unit. This may be the same as the EMS Unit/Vehicle Number in many agencies.

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *EMSUnitCallSign*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD Yes   **Minimum Constraint** 2   **Maximum Constraint**   15

Field Values
- Relevant Value for Data Element & Patient Care

Additional Information
- List box created from Unit Call Sign (D04_02)
- Not Nullable. A unique value must be provided to create a unique record ID within a database

Uses
- Allows data at the vehicle level to better describe EMS vehicle usage and possibly maintenance
- Important for grouping or comparing data by Response Vehicle which also allows data to be sorted by location in many agencies

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E01_01   Patient Care Report Number

BEGINNING ODOMETER READING OF RESPONDING VEHICLE

Data Format [number]

Definition

> The mileage (odometer reading) of the vehicle at the beginning of the call (when the wheels begin moving)

XSD Data Type   *xs:decimal*   **XSD Domain (Simple Type)** *OdometerReading*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD No   **Minimum Constraint**   0   **Maximum Constraint** 1,000,000

Field Values
- Relevant Value for Data Element & Patient Care

Additional Information
- Number recorded with one digit to the right of decimal

Uses
- Important for EMS billing
- Important for grouping or comparing data by dispatch location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

Data Collector
- EMS personnel

Other Associated Elements
E01_01   Patient Care Report Number

ON-SCENE ODOMETER READING OF RESPONDING VEHICLE

E02_17

Data Format [number]

Definition

The mileage (odometer reading) of the vehicle when it arrives at the patient

XSD Data Type *xs:decimal*　　　　**XSD Domain (Simple Type)** *OdometerReading*
Multiple Entry Configuration No　　　　　　　**Accepts Null** No
Required in XSD No　　　　　　**Minimum Constraint** 0　　**Maximum Constraint** 1,000,000

Field Values
● Relevant Value for Data Element & Patient Care

Additional Information
● Number recorded with one digit to the right of decimal

Uses
● Important for EMS billing
● Important for grouping or comparing data by dispatch location which also allows data to be sorted by geographic response areas in many agencies
● Provides information on overall response patterns and times for agency configuration and evaluation

Data Collector
● EMS personnel

Other Associated Elements
E01_01 Patient Care Report Number

PATIENT DESTINATION ODOMETER READING OF RESPONDING VEHICLE

E02_18

Data Format [number]

Definition

The mileage (odometer reading) of the vehicle when it arrives at the patient's destination

XSD Data Type *xs:decimal*　　　　**XSD Domain (Simple Type)** *OdometerReading*
Multiple Entry Configuration No　　　　　　　**Accepts Null** No
Required in XSD No　　　　　　**Minimum Constraint** 0　　**Maximum Constraint** 1,000,000

Field Values
● Relevant Value for Data Element & Patient Care

Additional Information
● Number recorded with one digit to the right of decimal

Uses
● Important for EMS billing
● Important for grouping or comparing data by dispatch location which also allows data to be sorted by geographic response areas in many agencies
● Provides information on overall response patterns and times for agency configuration and evaluation

Data Collector
● EMS personnel

Other Associated Elements
E01_01 Patient Care Report Number

ENDING ODOMETER READING OF RESPONDING VEHICLE

E02_19

Data Format [number]

Definition

The ending mileage (odometer reading) of the vehicle (at time back in service)

XSD Data Type *xs:decimal*   **XSD Domain (Simple Type)** *OdometerReading*
Multiple Entry Configuration No   **Accepts Null** No
Required in XSD No   **Minimum Constraint** 0   **Maximum Constraint** 1,000,000

Field Values
- Relevant Value for Data Element & Patient Care

Additional Information
- Number recorded with one digit to the right of decimal

Uses
- Important for EMS billing
- Important for grouping or comparing data by dispatch location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

Data Collector
- EMS personnel

Other Associated Elements
E01_01   Patient Care Report Number

RESPONSE MODE TO SCENE

E02_20

Data Format [combo] single-choice   *National Element*

Definition

Indication whether or not lights and/or sirens were used on the vehicle on the way to the scene

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *ResponseModeToScene*
Multiple Entry Configuration No   **Accepts Null** No
Required in XSD Yes

Field Values

380 Initial Lights and Sirens, Downgraded to No Lights or Sirens   **385** Initial No Lights or Sirens, Upgraded to Lights and Sirens

390 Lights and Sirens   **395** No Lights or Sirens

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted by the Response Mode
- Allows data to describe the use of emergent response

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E01_01   Patient Care Report Number

References in NHTSA Version 1
Essential Element 19   Lights and Sirens to Scene

Section E02   Unit/ Agency Information
Page 41 of 166
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Section E02   Unit/ Agency Information
Page 42 of 166
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Section E03

Unit/ Call Information

COMPLAINT REPORTED BY DISPATCH

Data Format [combo] single-choice   *National Element*

Definition

The complaint dispatch reported to the responding unit.

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *ComplaintReportedByDispatch*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values

-25 Not Applicable		**-15** Not Reporting	
-10 Not Known		**-5** Not Available	
400 Abdominal Pain		**405** Allergies	
410 Animal Bite		**415** Assault	
420 Back Pain		**425** Breathing Problem	
430 Burns		**435** CO Poisoning/Hazmat	
440 Cardiac Arrest		**445** Chest Pain	
450 Choking		**455** Convulsions/Seizure	
460 Diabetic Problem		**465** Drowning	
470 Electrocution		**475** Eye Problem	
480 Fall Victim		**485** Headache	
490 Heart Problems		**495** Heat/Cold Exposure	
500 Hemorrhage/Laceration		**505** Industrial Accident/Inaccessible Incident/Other Entrapments (non-vehicle)	
510 Ingestion/Poisoning		**515** Pregnancy/Childbirth	
520 Psychiatric Problem		**525** Sick Person	
530 Stab/Gunshot Wound		**535** Stroke/CVA	
540 Traffic Accident		**545** Traumatic Injury	
550 Unconscious/Fainting		**555** Unknown Problem Man Down	
560 Transfer/Interfacility/Palliative Care		**565** MCI (Mass Casualty Incident)	

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted by the Dispatch Complaint
- Allows data to describe Patient Complaint as reported by Dispatch

Data Collector

- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

References to Other Databases

NHTSA EMD Data Elements   Chief Complaint Types

EMD PERFORMED

Data Format   [combo] single-choice   *National Element*

Definition
Indication of whether EMD was performed for this EMS event.

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *EMDPerformed*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values
  -25 Not Applicable   **-15** Not Reporting
  -10 Not Known   **-5** Not Available
    0 No   **570** Yes, With Pre-Arrival Instructions
  575 Yes, Without Pre-Arrival Instructions

Uses
  ● Allows data to be sorted by the Dispatch Complaint
  ● Allows data to describe Patient Complaint as reported by Dispatch

Data Collector
  ● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
  E00   Common Null Values   **E01_01**   Patient Care Report Number

Section E05

Times

PSAP CALL DATE/TIME

E05_02

Data Format [date/time]   *National Element*

Definition
   The date/time the phone rings (911 call to public safety answering point or other designated entity) requesting EMS services.

XSD Data Type   *xs:dateTime*   **XSD Domain (Simple Type)** *DateTime*
Multiple Entry Configuration   No   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint** 1,990   **Maximum Constraint** 2,030

Field Values
   ● Relevant Value for Data Element & Patient Care

Additional Information
   ●If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used

Uses
   ●A component of the EMS Medical Record: Patient Care Report
   ●Allows data to be sorted based on Date and Time
   ●Allows data to describe EMS use by Date and Time, Day of the Week, etc

Data Collector
   ●911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
   E01_01   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 08   Date Incident Reported
Essential   Element 09   Time Incident Reported

References to Other Databases
   ● NFIRS 5.0 EMS Module; Title: Incident Date; The date the Fire Department received the incident alarm

UNIT NOTIFIED BY DISPATCH DATE/TIME

E05_04

Data Format [date/time]   *National Element*

Definition
   The date the responding unit was notified by dispatch

XSD Data Type   *xs:dateTime*   **XSD Domain (Simple Type)** *DateTime*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD Yes   **Minimum Constraint** 1,990   **Maximum Constraint** 2,030

Field Values
   ● Relevant Value for Data Element & Patient Care

Additional Information
   ●If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used
   ●Not Nullable. A unique value must be provided to create a unique record ID within a database

Uses
   ●A component of the EMS Medical Record: Patient Care Report
   ●Allows data to be sorted based on EMS agency time intervals
   ●Allows data to describe EMS agency time intervals

Data Collector
   ●911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
   E01_01   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 11   Date Unit Notified
Essential   Element 12   Time Unit Notified

UNIT EN ROUTE DATE/TIME

E05_05

Data Format [date/time]   *National Element*

Definition
> The date/time the unit responded; that is, the time the vehicle started moving

XSD Data Type   *xs:dateTime*   **XSD Domain (Simple Type)** *DateTime*
Multiple Entry Configuration   No   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint** 1,990   **Maximum Constraint** 2,030

Field Values
- Relevant Value for Data Element & Patient Care

Additional Information
- If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

Data Collector
- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
  E01_01   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 13   Time Unit Responding

UNIT ARRIVED ON SCENE DATE/TIME

E05_06

Data Format [date/time]   *National Element*

Definition
> The date/time the responding unit arrived on the scene; that is, the time the vehicle stopped moving

XSD Data Type   *xs:dateTime*   **XSD Domain (Simple Type)** *DateTime*
Multiple Entry Configuration   No   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint** 1,990   **Maximum Constraint** 2,030

Field Values
- Relevant Value for Data Element & Patient Care

Additional Information
- If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

Data Collector
- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
  E01_01   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 14   Time of Arrival at Scene

ARRIVED AT PATIENT DATE/TIME

E05_07

Data Format [date/time]   *National Element*

Definition
    The date/time the responding unit arrived at the patient's side

XSD Data Type   *xs:dateTime*   **XSD Domain (Simple Type)** *DateTime*
Multiple Entry Configuration   No   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint**   1,990   **Maximum Constraint**   2,030

Field Values
    ● Relevant Value for Data Element & Patient Care

Additional Information
    ●If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may
      also be used

Uses
    ●Provides more accurate information on the true response time of EMS to the patient's side
    ●Used in Quality Management evaluation of EMS response and performance especially in areas where patient location may
      be distant from the EMS vehicle

Data Collector
    ●911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
    E01_01   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 15   Time of Arrival at Patient
References to Other Databases
    ● NFIRS 5.0 EMS Module; Title: Date/Time Arrived; The date and time fire fighters arrived at the patient.

TRANSFER OF PATIENT CARE DATE/TIME

E05_08

Data Format [date/time]

Definition
    The date/time the patient was transferred from this EMS agency to another EMS agency for care.

XSD Data Type   *xs:dateTime*   **XSD Domain (Simple Type)** *DateTime*
Multiple Entry Configuration   No   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD No   **Minimum Constraint**   1,990   **Maximum Constraint**   2,030

Field Values
    ● Relevant Value for Data Element & Patient Care

Additional Information
    ●If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may
      also be used

Uses
    ●Important for Quality Management when the patient is cared for by more than one EMS agency
    ●Provides documentation of how the patient progresses through the EMS agency

Data Collector
    ●911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
    E01_01   Patient Care Report Number

References to Other Databases
    ● NFIRS 5.0 EMS Module; Title: Date/Time Transfer; The date and time fire fighters transferred the care of the patient to
                  another EMS agency.

UNIT LEFT SCENE DATE/TIME

Data Format [date/time]   *National Element*

Definition
>   The date/time the responding unit left the scene (started moving)

XSD Data Type   *xs:dateTime*   **XSD Domain (Simple Type)** *DateTime*
Multiple Entry Configuration   No   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint** **1,990**   **Maximum Constraint** **2,030**

Field Values
> ● Relevant Value for Data Element & Patient Care

Additional Information
> ● If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used

Uses
> ● A component of the EMS Medical Record: Patient Care Report
> ● Allows data to be sorted based on EMS agency time intervals
> ● Allows data to describe EMS agency time intervals

Data Collector
> ● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
> **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 16   Time Unit Left Scene

PATIENT ARRIVED AT DESTINATION DATE/TIME

Data Format [date/time]   *National Element*

Definition
>   The date/time the responding unit arrived with the patient at the destination or transfer point

XSD Data Type   *xs:dateTime*   **XSD Domain (Simple Type)** *DateTime*
Multiple Entry Configuration   No   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint** **1,990**   **Maximum Constraint** **2,030**

Field Values
> ● Relevant Value for Data Element & Patient Care

Additional Information
> ● If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used

Uses
> ● A component of the EMS Medical Record: Patient Care Report
> ● Allows data to be sorted based on EMS agency time intervals
> ● Allows data to describe EMS agency time intervals

Data Collector
> ● 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
> **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 17   Time of Arrival at Destination

UNIT BACK IN SERVICE DATE/TIME

Data Format [date/time]   *National Element*

Definition
The date/time the unit back was back in service and available for response (finished with call, but not necessarily back in home location)

XSD Data Type *xs:dateTime*   **XSD Domain (Simple Type)** *DateTime*
Multiple Entry Configuration No   **Accepts Null**   No
Required in XSD Yes   **Minimum Constraint** 1,990   **Maximum Constraint** 2,030

Field Values
- Relevant Value for Data Element & Patient Care

Additional Information
- If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

Data Collector
- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
E01_01 Patient Care Report Number

References in NHTSA Version 1
Essential   Element 18   Time Back in Service

UNIT BACK AT HOME LOCATION DATE/TIME

Data Format [date/time]   *National Element*

Definition
The date/time the responding unit was back in their service area. In agencies who utilized Agency Status Management, home location means the service area as assigned through the agency status management protocol.

XSD Data Type *xs:dateTime*   **XSD Domain (Simple Type)** *DateTime*
Multiple Entry Configuration No   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint** 1,990   **Maximum Constraint** 2,030

Field Values
- Relevant Value for Data Element & Patient Care

Additional Information
- If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used

Uses
- Allows data to be sorted based on EMS agency time intervals
- Allows data to describe EMS agency time intervals

Data Collector
- 911 or Dispatch Center and electronically or verbally transmitted to the EMS agency

Other Associated Elements
E01_01   Patient Care Report Number

Patient

PATIENT'S HOME ADDRESS

Data Format [text]

Definition
   The patient's home mailing or street address

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *StreetAddress*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD No   **Minimum Constraint** **2**   **Maximum Constraint** **30**
   XSD Structure: E06_04, E06_05, E06_06, E06_07, E06_08 are all members of the E06_04_0 Patient Address Structure

Field Values
   -25 Not Applicable   **-10** Not Known
    -5 Not Available   ●   Relevant Value for Data Element & Patient Care

Uses
   ● Key component of an EMS Medical Record
   ● Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

Data Collector
   ● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
   E00   Common Null Values   **E01_01**   Patient Care Report Number
   E06_01   Last Name   **E06_05**   Patient's Home City
   E06_06   Patient's Home County   **E06_07**   Patient's Home State
   E06_08   Patient's Home Zip Code

References in NHTSA Version 1
Desirable Element 33   Patient Street Address

PATIENT'S HOME CITY

E06_05

Data Format [combo] single-choice

Definition
    The patient's home city or township or residence

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *City*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD No   **Minimum Constraint**   2   **Maximum Constraint**   30
  XSD Structure: E06_04, E06_05, E06_07, E06_08 are all members of the E06_04_0 Patient Address Structure

Field Values
  -25 Not Applicable   **-10** Not Known
   -5 Not Available   ●   Relevant Value for Data Element & Patient Care

Additional Information
  ● 5 digit FIPS Code
  ● Could be filled in from Patient's Home Zip (E06_08)

Uses
  ● Key component of an EMS Medical Record
  ● Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

Data Collector
  ● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number
E06_01	Last Name	**E06_04**	Patient's Home Address
E06_06	Patient's Home County	**E06_07**	Patient's Home State
E06_08	Patient's Home Zip Code		

References in NHTSA Version 1
Desirable Element 34   City of Residence

PATIENT'S HOME STATE

E06_07

Data Format [combo] single-choice

Definition
    The patient's home state, territory, or province, or District of Columbia, where the patient resides

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *State*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD No   **Minimum Constraint**   2   **Maximum Constraint**   3
  XSD Structure: E06_04, E06_05, E06_06, E06_07, E06_08 are all members of the E06_04_0 Patient Address Structure

Field Values
  -25 Not Applicable   **-10** Not Known
   -5 Not Available   ●   Relevant Value for Data Element & Patient Care

Additional Information
  ● 2 digit FIPS numeric code (Not State abbreviation)
  ● Could be filled in from Patient's Home Zip (E06_08)

Uses
  ● Key component of an EMS Medical Record
  ● Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc

Data Collector
  ● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number
E06_01	Last Name	**E06_04**	Patient's Home Address
E06_05	Patient's Home City	**E06_06**	Patient's Home County
E06_08	Patient's Home Zip Code		

References in NHTSA Version 1
Desirable Element 36   State of Residence

PATIENT'S HOME ZIP CODE

E06_08

Data Format [text]   *National Element*

Definition
   The patient's home ZIP code of residence

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *Zip*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes   **Minimum Constraint** 2   **Maximum Constraint** 10
   XSD Structure: E06_04, E06_05, E06_07, E06_08 are all members of the E06_04_0 Patient Address Structure

Field Values
   -25 Not Applicable   **-15** Not Reporting
   -10 Not Known   **-5** Not Available
     ● Relevant Value for Data Element & Patient Care

Additional Information
   ●Can be stored as a 5 or 9 digit code
Uses
   ●Allows data to be sorted based on the geographic location of the patient's home
   ●Allows data to describe geographic location of the patient's home
   ●Key component of an EMS Medical Record
   ●Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc
Data Collector
   ●EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database
Other Associated Elements
   E00   Common Null Values   **E01_01**   Patient Care Report Number
   E06_01   Last Name   **E06_04**   Patient's Home Address
   E06_05   Patient's Home City   **E06_06**   Patient's Home County
   E06_07   Patient's Home State
References in NHTSA Version 1
Essential   Element 37   Zip Code of Residence

GENDER

E06_11

Data Format [combo] single-choice   *National Element*

Definition
   The patient's gender

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *Gender*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values
   -25 Not Applicable   **-15** Not Reporting
   -10 Not Known   **-5** Not Available
   650 Male   **655** Female

Uses
   ●A component of the EMS Medical Record: Patient Care Report
   ●Allows data to be sorted based on gender
   ●Allows data to describe the gender of the EMS patient population
Data Collector
   ●EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database
Other Associated Elements
   E00   Common Null Values   **E01_01**   Patient Care Report Number
   E06_01   Last Name
References in NHTSA Version 1
Essential   Element 42   Gender
References to Other Databases
   ● NFIRS 5.0 EMS Module; Title: Gender; Pick-List: Male = 1, Female = 2

RACE

E06_12

Data Format [combo] single-choice   *National Element*

Definition
The patient's race as defined by the OMB (US Office of Management and Budget)

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *Race*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values
-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
660 American Indian or Alaska Native	**665** Asian
670 Black or African American	**675** Native Hawaiian or Other Pacific Islander
680 White	**685** Other Race

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on race as required from a state and federal government reporting perspective
● Allows data to describe the race of the EMS patient population

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00   Common Null Values   **E01_01**   Patient Care Report Number
E06_01   Last Name

References in NHTSA Version 1
Essential   Element 43   Race/Ethnicity

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Race; Pick-List: White = 1, Black = 2, American Indian, Eskimo, Aleut = 3, Asian = 4,
            Other, Multi-racial = 0, Race Undetermined = U

ETHNICITY

E06_13

Data Format [combo] single-choice   *National Element*

Definition
The patient's ethnicity as defined by the OMB (US Office of Management and Budget)

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *Ethnicity*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values
-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
690 Hispanic or Latino	**695** Not Hispanic or Latino

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on ethnicity as required from a state and federal government reporting perspective
● Allows data to describe the ethnicity of the EMS patient population

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00   Common Null Values   **E01_01**   Patient Care Report Number
E06_01   Last Name

References in NHTSA Version 1
Essential   Element 43   Race/Ethnicity

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Ethnicity; Check-Box: Hispanic = Yes or No

AGE

Data Format [number]   *National Element*

Definition

    The patient's age (either calculated from date of birth or best approximation)

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *Age*
Multiple Entry Configuration   No   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD Yes   **Minimum Constraint**   1   **Maximum Constraint**   120
XSD Structure: E06_14 and E06_15 are members of the E06_14_0 Patient's Age Structure

Field Values
- Relevant Value for Data Element & Patient Care

Additional Information
- Could be calculated from Date of Birth (E06_16)

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on age
- Allows data to describe the age of the EMS patient population

Data Collector
- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E01_01   Patient Care Report Number   E06_01   Last Name
E06_15   Age Units

References in NHTSA Version 1
Desirable Element 41   Age

References to Other Databases
- NFIRS 5.0 EMS Module; Title: Age; The age of the patient or best approximation. If less than one year then enter the number of months.

AGE UNITS

Data Format [combo] single-choice   *National Element*

Definition

    The units which the age is documented in (Hours, Days, Months, Years)

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *AgeUnits*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes
XSD Structure: E06_14 and E06_15 are members of the E06_14_0 Patient's Age Structure

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
700 Hours	**705** Days
710 Months	**715** Years

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on age
- Allows data to describe the age of the EMS patient population

Data Collector
- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00   Common Null Values   E01_01   Patient Care Report Number
E06_14   Age

References in NHTSA Version 1
Desirable Element 41   Age

DATE OF BIRTH

E06_16

Data Format   [date]

Definition
    The patient's date of birth

XSD Data Type   *xs:date*   **XSD Domain (Simple Type)** *DateOfBirth*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD   No   **Minimum Constraint**   1,890   **Maximum Constraint**   2,030

Field Values
- Relevant Value for Data Element & Patient Care

Uses
- Key component of an EMS Medical Record
- Provides important information which will allow EMS data to be sorted, grouped and evaluated by age demographics

Data Collector
- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E01_01   Patient Care Report Number   **E06_01**   Last Name

References in NHTSA Version 1
Essential   Element 40   Date of Birth

References to Other Databases
- NFIRS 5.0   EMS Module; Title: Date of Birth; The date of birth of the patient in MMDDYYYY format.

Billing

PRIMARY METHOD OF PAYMENT

E07_01

Data Format [combo] single-choice   *National Element*

Definition
The primary method of payment or type of insurance associated with this EMS encounter

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *PrimaryMethodOfPayment*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values
-25 Not Applicable	**-10** Not Known
-5 Not Available	**720** Insurance
725 Medicaid	**730** Medicare
735 Not Billed (for any reason)	**740** Other Government
745 Self Pay	**750** Workers Compensation

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the payer mix
● Allows data to describe the EMS patient population's payer mix

Data Collector
● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number
E06_01	Last Name		

CMS SERVICE LEVEL

E07_34

Data Format [combo] single-choice   *National Element*

Definition
The CMS service level for this EMS encounter.

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *CMSServiceLevel*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values
-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
990 BLS	**995** BLS, Emergency
1000 ALS, Level 1	**1005** ALS, Level 1 Emergency
1010 ALS, Level 2	**1015** Paramedic Intercept
1020 Specialty Care Transport	**1025** Fixed Wing (Airplane)
1030 Rotary Wing (Helicopter)	

Uses
● Allows data to be quantified and described based on the CMS Service Level
● Allows data to be sorted based on the CMS Service Level
● Important for EMS billing

Data Collector
● EMS personnel unless the EMS Agency has professional billing personnel to provide this function

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number

CONDITION CODE NUMBER

E07_35

Data Format [combo] multiple-choice   *National Element*

Definition

The condition codes are used to better describe the service and patient care delivery by an EMS service. Please consult CMS documentation for detailed descriptions of these condition codes and their use.

XSD Data Type *xs:string*		**XSD Domain (Simple Type)** *ConditionCodeNumber*	
Multiple Entry Configuration Yes, via structure		**Accepts Null** Yes	
Required in XSD Yes	**Minimum Constraint** 2	**Maximum Constraint** 30	

XSD Structure: E07_35, E07_36 are members of E07_35_0 Condition Codes Structure

Field Values

-25 Not Applicable		**-15** Not Reporting
-10 Not Known		**-5** Not Available
8001 Severe Abdominal Pain (ALS-789.00)		**8002** Abdominal Pain (ALS-789.00)
8003 Abnormal Cardiac Rhythm/Cardiac Dysrhythmia (ALS-427.9)		**8004** Abnormal Skin Signs (ALS-780.8)
8005 Abnormal Vital Signs (ALS-796.4)		**8006** Allergic Reaction (ALS-995.0)
8007 Allergic Reaction (BLS-692.9)		**8008** Blood Glucose (ALS-790.21)
8009 Respiratory Arrest (ALS-799.1)		**8010** Difficulty Breathing (ALS-786.05)
8011 Cardiac Arrest-Resuscitation in Progress (ALS-427.5)		**8012** Chest Pain (non-traumatic) (ALS-786.50)
8013 Choking Episode (ALS-784.9)		**8014** Cold Exposure (ALS-991.6)
8015 Cold Exposure (BLS-991.9)		**8016** Altered Level of Consciousness (non-traumatic) (ALS-780.01)
8017 Convulsions/Seizures (ALS-780.39)		**8018** Eye Symptoms (non-traumatic) (BLS-379.90)
8019 Non Traumatic Headache (ALS-437.9)		**8020** Cardiac Symptoms other than Chest Pain (palpitations) (ALS-785.1)
8021 Cardiac Symptoms other than Chest Pain (atypical pain) (ALS-536.2)		**8022** Heat Exposure (ALS-992.5)
8023 Heat Exposure (BLS-992.2)		**8024** Hemorrhage (ALS-459.0)
8025 Infectious Diseases requiring Isolation/Public Health Risk (BLS-038.9)		**8026** Hazmat Exposure (ALS-987.9)
8027 Medical Device Failure (ALS-996.0)		**8028** Medical Device Failure (BLS-996.3)
8029 Neurologic Distress (ALS-436.0)		**8030** Pain (Severe) (ALS-780.99)
8031 Back Pain (non-traumatic possible cardiac or vascular) (ALS-724.5)		**8032** Back Pain (non-traumatic with neurologic symptoms) (ALS-724.9)
8033 Poisons (all routes) (ALS-977.9)		**8034** Alcohol Intoxication or Drug Overdose (BLS-305.0)
8035 Severe Alcohol Intoxication (ALS-977.3)		**8036** Post-Operative Procedure Complications (BLS-998.9)
8037 Pregnancy Complication/Childbirth/Labor (ALS-650.0)		**8038** Psychiatric/Behavioral (abnormal mental status) (ALS-292.9)
8039 Psychiatric/Behavioral (threat to self or others) (BLS-298.9)		**8040** Sick Person-Fever (BLS-036.9)
8041 Severe Dehydration (ALS-787.01)		**8042** Unconscious/Syncope/Dizziness (ALS-780.02)
8043 Major Trauma (ALS-959.8)		**8044** Other Trauma (need for monitor or airway) (ALS-518.5)
8045 Other Trauma (major bleeding) (ALS-958.2)		**8046** Other Trauma (fracture/dislocation) (BLS-829.0)
8047 Other Trauma (penetrating extremity) (BLS-880.0)		**8048** Other Trauma (amputation digits) (BLS-886.0)
8049 Other Trauma (amputation other) (ALS-887.4)		**8050** Other Trauma (suspected internal injuries) (ALS-869.0)
8051 Burns-Major (ALS-949.3)		**8052** Burns-Minor (BLS-949.2)
8053 Animal Bites/Sting/Envenomation (ALS-989.5)		**8054** Animal Bites/Sting/Envenomation (BLS-879.8)
8055 Lightning (ALS-994.0)		**8056** Electrocution (ALS-994.8)

8057 Near Drowning (ALS-994.1)	**8058** Eye Injuries (BLS-921.9)
8059 Sexual Assault (major injuries) (ALS-995.83)	**8060** Sexual Assault (minor injuries) (BLS-995.8)
8061 Cardiac/Hemodynamic Monitoring Required (ALS-428.9)	**8062** Advanced Airway Management (ALS-518.81)
8063 IV Meds Required (ALS-No ICD code provided))	**8064** Chemical Restraint (ALS-293.0)
8065 Suctioning/Oxygen/IV fluids required (BLS-496.0)	**8066** Airway Control/Positioning Required (BLS-786.09)
8067 Third Party Assistance/Attendant Required (BLS-496.0)	**8068** Patient Safety (restraints required) (BLS-298.9)
8069 Patient Safety (monitoring required) (BLS-293.1)	**8070** Patient Safety (seclusion required) (BLS-298.8)
8071 Patient Safety (risk of falling off stretcher) (BLS-781.3)	**8072** Special Handling (Isolation) (BLS-041.9)
8073 Special Handling (orthopedic device required) (BLS-907.2)	**8074** Special Handling (positioning required) (BLS-719.45)

Additional Information

● A list of 95 Condition Codes which are mapped to ICD-9 Codes. At this time the Condition Code List is still in draft. The number of the Condition Code should be stored in this field
● From the Center for Medicare and Medicaid Services (CMS) Ambulance Fee Schedule Condition Based Coding

Uses

● Allows data to be quantified and described based on the Condition Code
● Allows data to be sorted based on the Condition Code
● Important for EMS billing

Data Collector

● EMS personnel unless the EMS Agency has professional billing personnel to provide this function

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E07_36	ICD-9 Code for the Condition Code Number	E07_37	Condition Code Modifier

Scene

NUMBER OF PATIENTS AT SCENE

E08_05

Data Format [combo] single-choice   *National Element*

Definition
   Indicator of how many total patients were at the scene

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *NumberOfPatientsAtScene*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values
   -25 Not Applicable   **-15** Not Reporting
   -10 Not Known   **-5** Not Available
   1120 None   **1125** Single
   1130 Multiple

Uses
   ● A component of the EMS Medical Record: Patient Care Report
   ● Allows data to be sorted based on the number of patients associated with the event and resources required
   ● Allows data to describe the number of EMS events with multiple patient encounters

Data Collector
   ● EMS personnel

Other Associated Elements
   E00   Common Null Values   **E01_01**   Patient Care Report Number

References to Other Databases
   ● NFIRS 5.0 EMS Module; Title: Number of Patients; The total number of patients.

MASS CASUALTY INCIDENT

E08_06

Data Format [combo] single-choice   *National Element*

Definition
Indicator if this event would be considered a mass casualty incident (overwhelmed existing EMS resources)

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *YesNoValues*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values
-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
0 No	**1** Yes

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on a Mass Casualty Event
- Allows data to describe the number of EMS events which were declared a mass casualty event and is connected with disaster and domestic preparedness

Data Collector
- EMS personnel

Other Associated Elements
E00   Common Null Values   **E01_01**   Patient Care Report Number

---

INCIDENT LOCATION TYPE

E08_07

Data Format [combo] single-choice   *National Element*

Definition
The kind of location where the incident happened

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *IncidentLocationType*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values
-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
1135 Home/Residence	**1140** Farm
1145 Mine or Quarry	**1150** Industrial Place and Premises
1155 Place of Recreation or Sport	**1160** Street or Highway
1165 Public Building (schools, gov. offices)	**1170** Trade or service (business, bars, restaurants, etc)
1175 Health Care Facility (clinic, hospital, nursing home)	**1180** Residential Institution (Nursing Home, jail/prison)
1185 Lake, River, Ocean	**1190** Other Location

Additional Information
- Based on ICD-9

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the Incident Location and Type
- Allows data to describe the Incident Location and the distribution of EMS events

Data Collector
- EMS personnel

Other Associated Elements
E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Essential Element 05   Location Type

References to Other Databases
- UTSTEIN Title: Location of Arrest: Out of Hospital; Same as NHTSA E-Codes

SCENE GPS LOCATION

E08_10

Data Format [text]

Definition

The GPS coordinates associated with the Scene.

XSD Data Type *xs:decimal*   **XSD Domain (Simple Type)** *GPSLocation*
Multiple Entry Configuration No   **Accepts Null** No
Required in XSD No

XSD Attributes: Latitude and Longitude are each stored as a separate attribute

Field Values
- Relevant Value for Data Element & Patient Care

Uses
- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E01_01   Patient Care Report Number   E08_07   Incident Location Type

---

INCIDENT ADDRESS

E08_11

Data Format [text]

Definition

The street address (or best approximation) where the patient was found, or, if no patient, the address to which the unit responded.

XSD Data Type *xs:string*   **XSD Domain (Simple Type)** *StreetAddress*
Multiple Entry Configuration No   **Accepts Null** Yes
Required in XSD No   **Minimum Constraint** 2   **Maximum Constraint** 30

XSD Structure: E08_11, E08_12, E08_14, E08_15 are all members of E08_11_0 Incident Address Structure

Field Values
- -25 Not Applicable   -10 Not Known
- -5 Not Available   ● Relevant Value for Data Element & Patient Care

Uses
- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E08_07	Incident Location Type	E08_12	Incident City
E08_14	Incident State	E08_15	Incident ZIP Code

References in NHTSA Version 1
Essential   Element 01   Incident Address

Section E08   Scene
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)
Page 77 of 166

Section E08   Scene
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)
Page 78 of 166

INCIDENT CITY

E08_12

Data Format [combo] single-choice

Definition
The city or township (if applicable) where the patient was found or to which the unit responded (or best approximation)

XSD Data Type *xs:string*   **XSD Domain (Simple Type)** *City*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD No   **Minimum Constraint** 2   **Maximum Constraint** 30
XSD Structure: E08_11, E08_12, E08_14, E08_15 are all members of E08_11_0 Incident Address Structure

Field Values
-25 Not Applicable   **-10** Not Known
-5 Not Available   ● Relevant Value for Data Element & Patient Care

Additional Information
- 5 digit FIPS Code
- Could be filled in from Incident Zip Code entry (E08_15)

Uses
- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E00	Common Null Values	E01_01	Patient Care Report Number
E08_07	Incident Location Type	E08_11	Incident Address
E08_14	Incident State	E08_15	Incident ZIP Code

References in NHTSA Version 1
Essential Element 02   Incident City

INCIDENT STATE

E08_14

Data Format [combo] single-choice

Definition
The state, territory, or province where the patient was found or to which the unit responded (or best approximation)

XSD Data Type *xs:string*   **XSD Domain (Simple Type)** *State*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD No   **Minimum Constraint** 2   **Maximum Constraint** 3
XSD Structure: E08_11, E08_12, E08_14, E08_15 are all members of E08_11_0 Incident Address Structure

Field Values
-25 Not Applicable   **-10** Not Known
-5 Not Available   ● Relevant Value for Data Element & Patient Care

Additional Information
- 2 digit FIPS numeric code (Not State abbreviation)
- Could be filled in from Incident Zip Code entry (E08_15)

Uses
- A component of the EMS Medical Record: Patient Care Report
- Important for grouping or comparing data by Scene location which also allows data to be sorted by geographic response areas in many agencies
- Provides information on overall response patterns and times for agency configuration and evaluation

Data Collector
- EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E00	Common Null Values	E01_01	Patient Care Report Number
E08_07	Incident Location Type	E08_11	Incident Address
E08_12	Incident City	E08_15	Incident ZIP Code

References in NHTSA Version 1
Essential Element 04   Incident State

References to Other Databases
- NFIRS 5.0 Basic Module 1; Title: State; 2 digit FIPS; Text Field Size = 2

INCIDENT ZIP CODE

E08_15

Data Format [text]   *National Element*

Definition

The ZIP code of the incident location

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *Zip*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes   **Minimum Constraint** 2   **Maximum Constraint** 10
XSD Structure: E08_11, E08_12, E08_14, E08_15 are all members of E08_11_0 Incident Address Structure

Field Values
  -25 Not Applicable   **-15** Not Reporting
  -10 Not Known   **-5** Not Available
  ● Relevant Value for Data Element & Patient Care

Uses
  ● A component of the EMS Medical Record: Patient Care Report
  ● Allows data to be sorted based on the geographic location of the EMS Incident
  ● Allows data to describe geographic location of the EMS Incident

Data Collector
  ● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
  E00   Common Null Values   **E01_01** Patient Care Report Number
  E08_07 Incident Location Type   **E08_11** Incident Address
  E08_12 Incident City   **E08_14** Incident State

Section E09

Situation

PRIOR AID

E09_01

Data Format [combo] multiple-choice   *National Element*

Definition

Any care which was provided to the patient prior to the arrival of this unit.

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *PriorAid*
Multiple Entry Configuration   Yes   **Accepts Null**   Yes
Required in XSD   Yes   **Minimum Constraint**   2   **Maximum Constraint**   30

Field Values

-25 Not Applicable   **-15** Not Reporting
-10 Not Known   **-5** Not Available
     ● Relevant Value for Data Element & Patient Care

Additional Information

● List created from Procedures (D04_04) and Medications (D04_06)

Uses

● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the specific prior aid received or not received by the patient
● Allows data to describe aid which was provided prior to EMS arrival
● Used as a Quality Management tool to evaluate Bystander and First Responder involvement

Data Collector

● EMS personnel

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1

Desirable Element 58   Time of First CPR

References to Other Databases

● NFIRS 5.0 EMS Module; Title: Cardiac Arrest; Pick-List: Pre-Arrival Arrest = 1, Post-Arrival Arrest = 2;

● NFIRS 5.0 EMS Module; Title: Pre-Arrival Details; Pick-List: Witnessed = 1, Bystander CPR = 2

● UTSTEIN Title: CPR Before EMS and Rhythm Analysis or Defibrillation before EMS; [combo] Yes = Y, No = No, U = Unknown

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PRIOR AID PERFORMED BY

E09_02

Data Format [combo] multiple-choice   *National Element*

Definition

The type of individual who performed the care prior to the arrival of this unit.

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *PriorAidPerformedBy*
Multiple Entry Configuration   Yes   **Accepts Null**   Yes
Required in XSD   Yes

Field Values

-25 Not Applicable   **-15** Not Reporting
-10 Not Known   **-5** Not Available
1195 EMS Provider   **1200** Law Enforcement
1205 Lay Person   **1210** Other Healthcare Provider
1215 Patient

Uses

● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on who provided specific prior aid
● Allows data to describe who performed any aid which was provide prior to EMS arrival to the patient
● Used as a Quality Management tool to evaluate Bystander and First Responder involvement

Data Collector

● EMS personnel

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

OUTCOME OF THE PRIOR AID

E09_03

Data Format [combo] single-choice
National Element

Definition

What was the outcome or result of the care performed prior to the arrival of the unit?

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *OutcomeOfPriorAid*
Multiple Entry Configuration No   **Accepts Null** Yes
Required in XSD Yes

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
1220 Improved	**1225** Unchanged
1230 Worse	

Uses

- Allows data to be sorted based on the perceived outcome which resulted from specific prior aid received by the patient
- Allows data to describe aid which was provided prior to EMS arrival
- Used as a Quality Management tool to evaluate Bystander and First Responder involvement

Data Collector

- EMS personnel

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

Section E09   Situation
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)
Page 85 of 166

POSSIBLE INJURY

E09_04

Data Format [combo] single-choice
National Element

Definition

Indicates that the reason for the EMS encounter was related to an injury or traumatic event. This data element provides documentation to classify the EMS Reason for Encounter as either injury or non-injury related based on mechanism and not on actual injury

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *YesNoValues*
Multiple Entry Configuration No   **Accepts Null** Yes
Required in XSD Yes

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
0 No	**1** Yes

Additional Information

- Can be used to determine which records should have Section E10: Situation/ Trauma completed. If Injury Present (E09_04) is "Yes", Section E10 should be completed
- Possible Injury (E09_04), Chief Complaint Anatomic Location (E09_11), Chief Complaint Organ System (E09_12), and Primary Symptom (E09_13) are required to calculate the Reason for Encounter

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on trauma vs. non-traumatic events
- Allows data to describe trauma within the EMS patient population
- Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population

Data Collector

- EMS personnel

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

Section E09   Situation
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)
Page 86 of 166

CHIEF COMPLAINT

E09_05

Data   [text]

Definition
  The statement of the problem by the patient or the history provider in one or two words

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *ChiefComplaintNarrative*
Multiple Entry Configuration   No   **Accepts Null Values** Yes
Required in XSD No   **Minimum Constraint**   2   **Maximum Constraint**   50

Field Values
  -25 Not Applicable   **-20** Not Recorded
  -15 Not Reporting   **-10** Not Known
   -5 Not Available   ● Relevant Value for Data Element & Patient Care

Uses
  ● Allows data to be sorted based on the use of EMS Chief Complaint
  ● Allows data to describe EMS services delivered based on the EMS patient's chief complaint
  ● Important for an EMS Medical Record

Data Collector
  ● EMS personnel

Other Associated Elements
  E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Desirable Element 48   Chief Complaint

DURATION OF CHIEF COMPLAINT

E09_06

Data   [number]

Definition
  The time duration of the chief complaint

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *DurationOfChiefComplaint*
Multiple Entry Configuration   No   **Accepts Null Values** No
Required in XSD No   **Minimum Constraint**   1   **Maximum Constraint**   360
XSD Structure: E09_06 and E09_07 are members of E09_06_0 Duration of Chief Complaint Structure

Field Values
  ● Relevant Value for Data Element & Patient Care

Uses
  ● Important for an EMS Medical Record
  ● Important to evaluate clinical conditions which are time dependant such as MI or Stroke to determine appropriate EMS
    care

Data Collector
  ● EMS personnel

Other Associated Elements
  E01_01   Patient Care Report Number   **E09_05**   Chief Complaint
  E09_07   Time Units of Duration of Chief Complaint

TIME UNITS OF DURATION OF CHIEF COMPLAINT

E09_07

Data   [combo] single-choice

Definition
The time units of the duration of the patient's chief complaint

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *TimeUnitsOfChiefComplaint*
Multiple Entry Configuration   No   **Accepts Null Values**No
Required in XSD No
XSD Structure: E09_06 and E09_07 are members of E09_06_0 Duration of Chief Complaint Structure

Field Values
1235 Seconds	**1240** Minutes
1245 Hours	**1250** Days
1255 Weeks	**1260** Months
1265 Years	● Relevant Value for Data Element & Patient Care

Uses
- Important for an EMS Medical Record
- Important to evaluate clinical conditions which are time dependant such as MI or Stroke to determine appropriate EMS care

Data Collector
- EMS personnel

Other Associated Elements
E01_01	Patient Care Report Number	**E09_05**	Chief Complaint
E09_06	Duration of Chief Complaint		

CHIEF COMPLAINT ANATOMIC LOCATION

E09_11

Data Format [combo] single-choice   *National Element*

Definition
The primary anatomic location of the chief complaint as identified by EMS personnel

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *ComplaintAnatomicLocation*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values
-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
1305 Abdomen	**1310** Back
1315 Chest	**1320** Extremity-Lower
1325 Extremity-Upper	**1330** General/Global
1335 Genitalia	**1340** Head
1345 Neck	

Additional Information
- Possible Injury (E09_04), Chief Complaint Anatomic Location (E09_11), Chief Complaint Organ System (E09_12), and Primary Symptom (E09_13) are required to calculate the Reason for Encounter

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the patient's complaint location
- Allows data to describe the patient's complaint location
- Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population

Data Collector
- EMS personnel

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number

CHIEF COMPLAINT ORGAN SYSTEM

E09_12

Data Format [combo] single-choice   *National Element*

Definition

The primary organ system of the patient injured or medically affected. This is to be completed by EMS personnel with a minimum of an EMT-Paramedic level of credentialing.

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *ComplaintOrganSystem*
Multiple Entry Configuration No   **Accepts Null** Yes
Required in XSD Yes

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
1350 Cardiovascular	**1355** CNS/Neuro
1360 Endocrine/Metabolic	**1365** GI
1370 Global	**1375** Musculoskeletal
1380 OB/Gyn	**1385** Psych
1390 Pulmonary	**1395** Renal
1400 Skin	

Additional Information

- Possible Injury (E09_04), Chief Complaint Anatomic Location (E09_11), Chief Complaint Organ System (E09_12), and Primary Symptom (E09_13) are required to calculate the Reason for Encounter
- This data element is to be completed by EMS personnel at the EMT-Paramedic level or higher

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population

Data Collector

- EMS personnel

Other Associated Elements

E00	Common Null Values	**E01_01**	Patient Care Report Number

PRIMARY SYMPTOM

E09_13

Data Format [combo] single-choice   *National Element*

Definition

The primary sign and symptom present in the patient or observed by EMS personnel

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *PrimarySymptom*
Multiple Entry Configuration No   **Accepts Null** Yes
Required in XSD Yes

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
1405 Bleeding	**1410** Breathing Problem
1415 Change in responsiveness	**1420** Choking
1425 Death	**1430** Device/Equipment Problem
1435 Diarrhea	**1440** Drainage/Discharge
1445 Fever	**1450** Malaise
1455 Mass/Lesion	**1460** Mental/Psych
1465 Nausea/Vomiting	**1470** None
1475 Pain	**1480** Palpitations
1485 Rash/Itching	**1490** Swelling
1495 Transport Only	**1500** Weakness
1505 Wound	

Additional Information

- Possible Injury (E09_04), Chief Complaint Anatomic Location (E09_11), Chief Complaint Organ System (E09_12), and Primary Symptom (E09_13) are required to calculate the Reason for Encounter

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the patient's primary symptom
- Allows data to describe the patient's primary symptom
- Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population

Data Collector

- EMS personnel

Other Associated Elements

E00	Common Null Values	**E01_01**	Patient Care Report Number

References in NHTSA Version 1

Essential   Element 52   Signs and Symptoms Present

OTHER ASSOCIATED SYMPTOMS

E09_14

Data Format [combo] multiple-choice   *National Element*

Definition

   Other symptoms identified by the patient or observed by EMS personnel

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *OtherAssociatedSymptoms*
Multiple Entry Configuration   Yes   **Accepts Null**   Yes
Required in XSD Yes

Field Values

-25 Not Applicable		**-15** Not Reporting	
-10 Not Known		**-5** Not Available	
1510 Bleeding		**1515** Breathing Problem	
1520 Change in responsiveness		**1525** Choking	
1530 Death		**1535** Device/Equipment Problem	
1540 Diarrhea		**1545** Drainage/Discharge	
1550 Fever		**1555** Malaise	
1560 Mass/Lesion		**1565** Mental/Psych	
1570 Nausea/Vomiting		**1575** None	
1580 Pain		**1585** Palpitations	
1590 Rash/Itching		**1595** Swelling	
1600 Transport Only		**1605** Weakness	
1610 Wound			

Additional Information
 ● This data element is used for Bioterrorism Syndromic Surveillance

Uses
 ● A component of the EMS Medical Record: Patient Care Report
 ● Allows data to be sorted based on the patient's primary symptom
 ● Allows data to describe the patient's associated symptoms
 ● Allows for potential bio-terrorism surveillance based on the symptomatic presentation of the EMS Patient combined with
   other data points

Data Collector
 ● EMS personnel

Other Associated Elements
   E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 52   Signs and Symptoms Present

PROVIDERS PRIMARY IMPRESSION

E09_15

Data Format [combo] single-choice   *National Element*

Definition

   The EMS personnel's impression of the patient's primary problem or most significant condition which led to the management given
   to the patient (treatments, medications, or procedures).

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *ProvidersPrimaryImpression*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
1615 789.00- Abdominal pain / problems	**1620** 519.80- Airway obstruction
1625 995.30- Allergic reaction	**1630** 780.09- Altered level of consciousness
1635 312.90- Behavioral / psychiatric disorder	**1640** 427.50- Cardiac arrest
1645 427.90- Cardiac rhythm disturbance	**1650** 786.50- Chest pain / discomfort
1655 250.90- Diabetic symptoms (hypoglycemia)	**1660** 994.80- Electrocution
1665 780.60- Hyperthermia	**1670** 780.90- Hypothermia
1675 785.59- Hypovolemia / shock	**1680** 987.90- Inhalation injury (toxic gas)
1685 798.99- Obvious death	**1690** 977.90- Poisoning / drug ingestion
1695 659.90- Pregnancy / OB delivery	**1700** 786.09- Respiratory distress
1705 799.10- Respiratory arrest	**1710** 780.30- Seizure
1715 959.90- Sexual assault / rape	**1720** 987.90- Smoke inhalation
1725 989.50- Stings / venomous bites	**1730** 436.00- Stroke / CVA
1735 780.20- Syncope / fainting	**1740** 959.90- Traumatic injury
1745 623.80- Vaginal hemorrhage	

Additional Information
 ● ICD-9 Codes were retained over ICD-10 due to CMS's continued use of ICD-9 in the EMS Condition Codes

Uses
 ● A component of the EMS Medical Record: Patient Care Report
 ● Allows data to be sorted based on the EMS personnel's clinical impression
 ● Allows data to describe the EMS patient population based on EMS personnel impression of the EMS patient's problem

Data Collector
 ● EMS personnel

Other Associated Elements
   E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 50   Providers Impression
References to Other Databases
 ● NFIRS 5.0 EMS Module; Title: Provider Impression/Assessment; The emergency providers single most important
   impression/assessment which drove the choice of treatment; [combo] Abdominal Pain = 10, Airway
   Obstruction = 11, Allergic Reaction, excludes stings & venomous bites = 12, Altered Level of
   Consciousness = 13, Behavioral-Mental Status, Psychiatric Disorder = 14, Burns = 15, Cardiac Arrest = 16,
   Cardiac Dysrhythmia = 17, Chest Paid = 18, Diabetic Symptom = 19, Do Not Resuscitate = 20, Electrocution =
   21, General Illness = 2, Hemorrhaging/Bleeding = 23, Hyperthermia = 24, Hypothermia = 25, Hypovolemia =
   26, Inhalation Injury, Toxic Gases = 27, Obvious Death = 28, Overdose/Poisoning = 29, Pregnancy/OB = 30,
   Respiratory Arrest = 31, Respiratory Distress = 32, Seizure = 33, Sexual Assault = 34, Sting/Bite = 35,
   Stroke/CVA = 36, Syncope, Fainting = 37, Trauma = 38, Other Impression/Assessment = 00, None/No
   patient or refused Treatment = NN

PROVIDER'S SECONDARY IMPRESSION

E09_16

Data Format [combo] single-choice

National Element

Definition

The EMS personnel's impression of the patient's secondary problem or which led to the management given to the patient (treatments, medications, or procedures).

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *ProvidersSecondaryImpression*

Multiple Entry Configuration No   **Accepts Null** Yes

Required in XSD Yes

Field Values

-25	Not Applicable	**-15**	Not Reporting
-10	Not Known	**-5**	Not Available
1750	789.00- Abdominal pain / problems	**1755**	519.80- Airway obstruction
1760	995.30- Allergic reaction	**1765**	780.09- Altered level of consciousness
1770	312.90- Behavioral / psychiatric disorder	**1775**	427.50- Cardiac arrest
1780	427.90- Cardiac rhythm disturbance	**1785**	786.50- Chest pain / discomfort
1790	250.90- Diabetic symptoms (hypoglycemia)	**1795**	994.80- Electrocution
1800	780.60- Hyperthermia	**1805**	780.90- Hypothermia
1810	785.59- Hypovolemia / shock	**1815**	987.90- Inhalation injury (toxic gas)
1820	798.99- Obvious death	**1825**	977.90- Poisoning / drug ingestion
1830	659.90- Pregnancy / OB delivery	**1835**	786.09- Respiratory distress
1840	799.10- Respiratory arrest	**1845**	780.30- Seizure
1850	959.90- Sexual assault / rape	**1855**	987.90- Smoke inhalation
1860	989.50- Stings / venomous bites	**1865**	436.00- Stroke / CVA
1870	780.20- Syncope / fainting	**1875**	959.90- Traumatic injury
1880	623.80- Vaginal hemorrhage		

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the EMS personnel's clinical impression
- Allows data to describe the EMS patient population based on EMS personnel impression of the EMS patient's problem

Data Collector

- EMS personnel

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1

Essential   Element 50   Providers Impression

Situation/ Trauma

CAUSE OF INJURY

E10_01

Data Format [combo] single-choice   *National Element*

Definition

The category of the reported/suspected external cause of the injury

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *CauseOfInjury*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
9500 Aircraft related accident (E84X.0)	**9505** Bicycle Accident (E826.0)
9510 Bites (E906.0)	**9515** Chemical poisoning (E86X.0)
9520 Child battering (E967.0)	**9525** Drowning (E910.0)
9530 Drug poisoning (E85X.0)	**9535** Electrocution (non-lightning) (E925.0)
9540 Excessive Cold (E901.0)	**9545** Excessive Heat (E900.0)
9550 Falls (E88X.0)	**9555** Fire and Flames (E89X.0)
9560 Firearm assault (E965.0)	**9565** Firearm injury (accidental) (E985.0)
9570 Firearm self inflicted (E955.0)	**9575** Lightning (E907.0)
9580 Machinery accidents (E919.0)	**9585** Mechanical Suffocation (E913.0)
9590 Motor Vehicle non-traffic accident (E82X.0)	**9595** Motor Vehicle traffic accident (E81X.0)
9600 Motorcycle Accident (E81X.1)	**9605** Non-Motorized Vehicle Accident (E848.0)
9610 Pedestrian traffic accident (E814.0)	**9615** Radiation exposure (E926.0)
9620 Rape (E960.1)	**9625** Smoke Inhalation (E89X.2)
9630 Stabbing/Cutting Accidental (E986.0)	**9635** Stabbing/Cutting Assault (E966.0)
9640 Struck by Blunt/Thrown Object (E968.2)	**9645** Venomous stings (plants, animals) (E905.0)
9650 Water Transport accident (E83X.0)	

Additional Information
- ● Complete only if Possible Injury (E09_04) is "Yes"
- ● ICD-9 Codes were retained over ICD-10 due to CMS's continued use of ICD-9 in the EMS Condition Codes

Uses
- ● A component of the EMS Medical Record: Patient Care Report
- ● Allows data to be sorted based on the traumatic cause of injury
- ● Allows data to describe the cause of a traumatic event

Data Collector
- ● EMS personnel if Possible Injury (E09_04) is answered Yes

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Essential Element 49   Cause of Injury

References to Other Databases
- • NFIRS 5.0   EMS Module; Title: Cause of Illness/Injury; The immediate cause or condition responsible for the injury or illness; Pick-List: Chemical Exposure = 10, Drug Poisoning = 11, Fall = 12, Aircraft Related = 13, Bite, Includes Animal Bites = 14, Bicycle Accident = 15, Building Collapse/Construction Accident = 16, Downing = 17, Electrical Shock = 18, Cold = 19, Heat = 20, E explosives - 21, Fire and Flames - 22. Firearm = 23, Fireworks = 25, Lightning = 26, Machinery = 27, Mechanical Suffocation = 28, Motor Vehicle Accident = 29, Motor Vehicle Accident, Pedestrian = 30, Non-Traffic Vehicle (off road) Accident = 31, Physical Assault/Abuse = 32, Scalds/Other Thermal = 33, Smoke Inhalation = 34, Stabbing Assault = 35, Venomous Sting = 36, Water Transport = 37, Other Cause of Injury/Illness = 00, Unknown Cause of Injury/Illness = UU

MECHANISM OF INJURY

E10_03

Data Format [combo] multiple-choice

Definition

The mechanism of the event which caused the injury.

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *MechanismOfInjury*
Multiple Entry Configuration   Yes   **Accepts Null**   Yes
Required in XSD No

Field Values

-25 Not Applicable	**-10** Not Known
-5 Not Available	**2035** Blunt
2040 Burn	**2045** Other
2050 Penetrating	

Additional Information
- ● Complete only if Possible Injury (E09_04) is "Yes"

Uses
- ● A component of the EMS Medical Record: Patient Care Report
- ● Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery

- ● Used to better define injury cause and describe injury patterns within and EMS community

Data Collector
- ● EMS personnel if Possible Injury (E09_04) is answered Yes

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

VEHICULAR INJURY INDICATORS

E10_04

Data Format [combo] multiple-choice

Definition
    The kind of risk factor predictors associated with the vehicle involved in the incident

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *VehicularInjuryIndicators*
Multiple Entry Configuration   Yes   **Accepts Null**   Yes
Required in XSD No

Field Values

-25 Not Applicable	**-10** Not Known
-5 Not Available	**2055** Dash Deformity
2060 DOA Same Vehicle	**2065** Ejection
2070 Fire	**2075** Rollover/Roof Deformity
2080 Side Post Deformity	**2085** Space Intrusion >1 foot
2090 Steering Wheel Deformity	**2095** Windshield Spider/Star

Additional Information
    ● Complete only if Possible Injury (E09_04) is "Yes"

Uses
    ● A component of the EMS Medical Record: Patient Care Report
    ● Used to better define injury cause and describe injury patterns within and EMS community

Data Collector
    ● EMS personnel if Possible Injury (E09_04) is answered Yes and there is a vehicle involved

Other Associated Elements

E00	Common Null Values	**E01_01**	Patient Care Report Number

AREA OF THE VEHICLE IMPACTED BY THE COLLISION

E10_05

Data Format [combo] multiple-choice

Definition
    The area or location of impact on the vehicle

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *AreaOfVehicleImpact*
Multiple Entry Configuration   Yes   **Accepts Null**   Yes
Required in XSD No

Field Values

-25 Not Applicable	**-10** Not Known
-5 Not Available	**2100** Center Front
2105 Center Rear	**2110** Left Front
2115 Left Rear	**2120** Left Side
2125 Right Front	**2130** Right Rear
2135 Right Side	**2140** Roll Over

Additional Information
    ● Complete only if Possible Injury (E09_04) is "Yes"

Uses
    ● A component of the EMS Medical Record: Patient Care Report
    ● Used to better define injury cause and describe injury patterns within and EMS community

Data Collector
    ● EMS personnel if Possible Injury (E09_04) is answered Yes and there is a vehicle involved

Other Associated Elements

E00	Common Null Values	**E01_01**	Patient Care Report Number

SEAT ROW LOCATION OF PATIENT IN VEHICLE

E10_06

Data Format [text]

Definition

The seat row location of the patient in vehicle at the time of the crash with the front seat numbered as 1.

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *SeatRowLocation*
Multiple Entry Configuration No   **Accepts Null** No
Required in XSD No   **Minimum Constraint** 1   **Maximum Constraint** 15
XSD Structure: E10_06 and E10_07 are members of E10_06_0 Position of Patient Structure

Field Values

- Relevant Value for Data Element & Patient Care ● If a value of 50 is passed, the location is designated "Cargo Area"

Additional Information

- Complete only if Possible Injury (E09_04) is "Yes"
- Could be configured as a single choice combo box
- Numbered to take into account large vehicles such as buses or vans (1 = Front) or (Cargo Area = 50)

Uses

- A component of the EMS Medical Record: Patient Care Report
- Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery

- Used to better define injury cause and describe injury patterns within and EMS community

Data Collector

- EMS personnel if Possible Injury (E09_04) is answered Yes and there is a vehicle involved

Other Associated Elements

E01_01 Patient Care Report Number   **E10_07** Position of Patient in the Seat of the Vehicle

---

POSITION OF PATIENT IN THE SEAT OF THE VEHICLE

E10_07

Data Format [combo] single-choice

Definition

The position of the patient in seat of the vehicle at the time of the crash

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *PositionOfPatientInSeat*
Multiple Entry Configuration No   **Accepts Null** Yes
Required in XSD No
XSD Structure: E10_06 and E10_07 are members of E10_06_0 Position of Patient Structure

Field Values

-25 Not Applicable	**-10** Not Known
-5 Not Available	**2145** Driver
2150 Left (non-driver)	**2155** Middle
2160 Other	**2165** Right

Additional Information

- Complete only if Possible Injury (E09_04) is "Yes"

Uses

- A component of the EMS Medical Record: Patient Care Report
- Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery

- Used to better define injury cause and describe injury patterns within and EMS community

Data Collector

- EMS personnel if Possible Injury (E09_04) is answered Yes and there is a vehicle involved

Other Associated Elements

E00 Common Null Values   **E01_01** Patient Care Report Number
E10_06 Seat Row Location of Patient in Vehicle

Section E10   Situation/ Trauma
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)
Page 101 of 166

Section E10   Situation/ Trauma
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)
Page 102 of 166

USE OF OCCUPANT SAFETY EQUIPMENT

Data Format [combo] multiple-choice

Definition

Safety equipment in use by the patient at the time of the injury

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *UseOfOccupantSafetyEquipment*
Multiple Entry Configuration Yes   **Accepts Null** Yes
Required in XSD No

Field Values

-25 Not Applicable	**-10** Not Known
-5 Not Available	**2170** Child Restraint
2175 Eye Protection	**2180** Helmet Worn
2185 Lap Belt	**2187** None
2190 Other	**2195** Personal Floatation Device
2200 Protective Clothing	**2205** Protective Non-Clothing Gear
2210 Shoulder Belt	

Additional Information
- Complete only if Possible Injury (E09_04) is "Yes"

Uses
- A component of the EMS Medical Record: Patient Care Report
- Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery

- Used to better define injury cause and describe injury patterns within and EMS community

Data Collector
- EMS personnel if Possible Injury (E09_04) is answered Yes and there is a vehicle involved

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 55   Safety Equipment
References to Other Databases
- NFIRS 5.0 EMS Module; Title: Safety Equipment; Multiple Select Pick-List: Safety, Seat Belts =1, Child Safety Seat = 2, Airbag = 3, Helmet = 4, Protective Clothing = 5, Flotation Device = 6, None or No Safety Equipment = N, Other Safety Equipment Used = O, Undetermined Safety Equipment = U

AIRBAG DEPLOYMENT

Data Format [combo] multiple-choice

Definition

Indication of Airbag deployment during the motor vehicle crash.

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *AirbagDeployment*
Multiple Entry Configuration Yes   **Accepts Null** Yes
Required in XSD No

Field Values

-25 Not Applicable	**-10** Not Known
-5 Not Available	**2215** No Airbag Present
2220 No Airbag Deployed	**2225** Airbag Deployed Front
2230 Airbag Deployed Side	**2235** Airbag Deployed Other (knee, airbelt, etc.)

Additional Information
- Complete only if Possible Injury (E09_04) is "Yes"

Uses
- A component of the EMS Medical Record: Patient Care Report
- Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery

- Used to better define injury cause and describe injury patterns within and EMS community

Data Collector
- EMS personnel if Possible Injury (E09_04) is answered Yes and there is a vehicle involved

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 55   Safety Equipment
References to Other Databases
- NFIRS 5.0 EMS Module; Title: Safety Equipment; Multiple Select Pick-List: Safety, Seat Belts =1, Child Safety Seat = 2, Airbag = 3, Helmet = 4, Protective Clothing = 5, Flotation Device = 6, None or No Safety Equipment = N, Other Safety Equipment Used = O, Undetermined Safety Equipment = U

Section E10   Situation/ Trauma   **Page 103 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Section E10   Situation/ Trauma   **Page 104 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Situation/ CPR

CARDIAC ARREST

E11_01

Data Format [combo] single-choice

National Element

Definition
Indication of the presence of a cardiac arrest at any time associated with the EMS evert.

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *CardiacArrest*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values
-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
0 No	**2240** Yes, Prior to EMS Arrival
2245 Yes, After EMS Arrival	

Additional Information
● If answered YES, all other data points in the Situation/CPR should be addressed

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the occurrence of a cardiac arrest
● Allows data to describe the number of cardiac arrests within the EMS patient population

Data Collector
● EMS personnel

Other Associated Elements
E00   Common Null Values   **E01_01**   Patient Care Report Number

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Cardiac Arrest; Pick-List: Pre-Arrival Arrest = 1, Post-Arrival Arrest = 2

● UTSTEIN Title: Confirmed Cardiac Arrests Considered for Resuscitation

CARDIAC ARREST ETIOLOGY

E11_02

Data Format [combo] single-choice   *National Element*

Definition
Indication of the etiology or cause of the cardiac arrest (classified as cardiac, non-cardiac, etc.)

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *CardiacArrestEtiology*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values
-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
2250 Presumed Cardiac	**2255** Trauma
2260 Drowning	**2265** Respiratory
2270 Electrocution	**2275** Other

Additional Information
● Complete only if Cardiac Arrest (E11_01) is "Yes"

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the occurrence of a cardiac arrest
● Allows data to describe the number of cardiac arrests within the EMS patient population

Data Collector
● EMS personnel if Cardiac Arrest (E11_01) is answered Yes

Other Associated Elements
E00   Common Null Values   **E01_01**   Patient Care Report Number

References to Other Databases
● UTSTEIN Title: Cardiac Etiology; Presumed Cardiac = C, Trauma = T, Drowning = D, Respiratory = R, Other = O,
             Unknown = U

RESUSCITATION ATTEMPTED

E11_03

Data Format [combo] multiple-choice   *National Element*

Definition
Indication of an attempt to resuscitate the patient who is in cardiac arrest (attempted, not attempted due to DNR, etc.)

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *ResuscitationAttempted*
Multiple Entry Configuration   Yes   **Accepts Null**   Yes
Required in XSD Yes

Field Values
-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
2280 Attempted Defibrillation	**2285** Attempted Ventilation
2290 Initiated Chest Compressions	**2295** Not Attempted-Considered Futile
2300 Not Attempted-DNR Orders	**2305** Not Attempted-Signs of Circulation

Additional Information
● Complete only if Cardiac Arrest (E11_01) is "Yes"

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the type of resuscitation initiated during a cardiac arrest
● Allows data to describe the number of cardiac arrests within the EMS patient population which resulted in resuscitative efforts

Data Collector
● EMS personnel if Cardiac Arrest (E11_01) is answered Yes

Other Associated Elements
E00   Common Null Values   **E01_01**   Patient Care Report Number

References to Other Databases
● UTSTEIN Title: Resuscitations Attempted; Attempted Defibrillation = D, Attempted Chest Compressions = C, Attempted
             Ventilation = V, Not Attempted-DNR Orders = R, Not Attempted-Considered Futile = F, Not Attempted-Signs of
             Circulation = A, Unknown = U, Not Record

ARREST WITNESSED BY

E11_04

Data   [combo] single-choice

Definition
Indication of who the cardiac arrest was witnessed by

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *ArrestWitnessedBy*
Multiple Entry Configuration   No   **Accepts Null Values**Yes
Required in XSD No

Field Values
-25 Not Applicable		**-20** Not Recorded
-15 Not Reporting		**-10** Not Known
-5 Not Available		2310 Witnessed by Healthcare Provider
2315 Witnessed by Lay Person		2320 Not Witnessed

Additional Information
● Complete only if Cardiac Arrest (E11_01) is "Yes"

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the Witnessed or Un-Witnessed Arrest which is a known key element associated with Cardiac Arrest Outcome
● Allows data to describe aid which was provided prior to EMS arrival
● Used as a Quality Management tool to evaluate Bystander and First Responder involvement

Data Collector
● EMS personnel if Cardiac Arrest (E11_01) is answered Yes

Other Associated Elements
E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Desirable Element 62   Witness of Cardiac Arrest

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Pre-Arrival Details; Pick-List: Witnessed = 1, Bystander CPR = 2
● UTSTEIN Title: Arrest Witnessed/Monitored; [combo] Lay Person = L, Healthcare Provider = H

FIRST MONITORED RHYTHM OF THE PATIENT

E11_05

Data   [combo] single-choice

Definition
Documentation of what the first monitored rhythm which was noted

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *FirstMonitoredRhythm*
Multiple Entry Configuration   No   **Accepts Null Values**Yes
Required in XSD No

Field Values
-25 Not Applicable		**-20** Not Recorded
-15 Not Reporting		**-10** Not Known
-5 Not Available		2325 Asystole
2330 Bradycardia		2335 Normal Sinus Rhythm
2340 Other		2345 PEA
2350 Unknown AED Non-Shockable Rhythm		2355 Unknown AED Shockable Rhythm
2360 Ventricular Fibrillation		2365 Ventricular Tachycardia

Additional Information
● Complete only if Cardiac Arrest (E11_01) is "Yes"

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the First Monitored Rhythm of a cardiac arrest
● Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

Data Collector
● EMS personnel if Cardiac Arrest (E11_01) is answered Yes

Other Associated Elements
E00   Common Null Values   **E01_01**   Patient Care Report Number

References to Other Databases
● NFIRS 5.0 EMS Module; Title: Initial Arrest Rhythm; Pick-List: V-Fib//V-Tach = 1, Other = O, Undetermined = U

● UTSTEIN Title: First Monitored Rhythm Shockable (in Cardiac Arrest) and First Monitored Rhythm Non-Shockable; [combo] Ventricular Fibrillation, Ventricular Tachycardia, Unknown AED Shockable Rhythm, Asystole, PEA, Bradycardia, Other, Unknown AED Non-Shockable Rh

ANY RETURN OF SPONTANEOUS CIRCULATION

Data   [combo] single-choice

Definition

Indication whether or not there was any return of spontaneous circulation at any time during the EMS evert.

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *ReturnOfSpontaneousCirculation*
Multiple Entry Configuration   No   **Accepts Null Values**Yes
Required in XSD No

Field Values

-25 Not Applicable	**-20** Not Recorded
-15 Not Reporting	**-10** Not Known
-5 Not Available	**0** No
2370 Yes, Prior to ED Arrival Only	**2375** Yes, Prior to ED Arrival and at the ED

Additional Information

● Complete only if Cardiac Arrest (E11_01) is "Yes"

Uses

● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the Return of Spontaneous Circulation associated with a cardiac arrest
● Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

Data Collector

● EMS personnel if Cardiac Arrest (E11_01) is answered Yes

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1

Desirable Element 64   Return of Spontaneous Circulation

References to Other Databases

● UTSTEIN Title: Any Return of Spontaneous Circulation (ROSC); [combo] Yes = Y, No = No, U = Unknown

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REASON CPR DISCONTINUED

Data   [combo] single-choice

Definition

The reason that CPR or the resuscitation efforts were discontinued.

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *ReasonCPRDiscontinued*
Multiple Entry Configuration   No   **Accepts Null Values**Yes
Required in XSD No

Field Values

-25 Not Applicable	**-20** Not Recorded
-15 Not Reporting	**-10** Not Known
-5 Not Available	**2430** DNR
2435 Medical Control Order	**2440** Obvious Signs of Death
2445 Protocol/Policy Requirements Completed	**2450** Return of Spontaneous Circulation (pulse or BP noted)

Additional Information

● Complete only if Cardiac Arrest (E11_01) is "Yes"

Uses

● A component of the EMS Medical Record: Patient Care Report
● Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

Data Collector

● EMS personnel if Cardiac Arrest (E11_01) is answered Yes

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

CARDIAC RHYTHM ON ARRIVAL AT DESTINATION

Data   [combo] multiple-choice

Definition

The patient's cardiac rhythm upon delivery or transfer to the destination

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *CardiacRythmAtDestination*
Multiple Entry Configuration   Yes   **Accepts Null Values** Yes
Required in XSD No

Field Values

-25 Not Applicable		**-20** Not Recorded	
-15 Not Reporting		**-10** Not Known	
-5 Not Available		**2455** 12 Lead ECG-Anterior Ischemia	
2460 12 Lead ECG-Inferior Ischemia		**2465** 12 Lead ECG-Lateral Ischemia	
2470 Agonal/Idioventricular		**2475** Artifact	
2480 Asystole		**2485** Atrial Fibrillation/Flutter	
2490 AV Block-1st Degree		**2495** AV Block-2nd Degree-Type 1	
2500 AV Block-2nd Degree-Type 2		**2505** AV Block-3rd Degree	
2510 Junctional		**2515** Left Bundle Branch Block	
2520 Normal Sinus Rhythm		**2525** Other	
2530 Paced Rhythm		**2535** PEA	
2540 Premature Atrial Contractions		**2545** Premature Ventricular Contractions	
2550 Right Bundle Branch Block		**2555** Sinus Arrhythmia	
2560 Sinus Bradycardia		**2565** Sinus Tachycardia	
2570 Supraventricular Tachycardia		**2575** Torsades De Points	
2580 Unknown AED Non-Shockable Rhythm		**2585** Unknown AED Shockable Rhythm	
2590 Ventricular Fibrillation		**2595** Ventricular Tachycardia	

Additional Information
- Complete only if Cardiac Arrest (E11_01) is "Yes"
- This data point could be completed by documentation of the final rhythm in the Vital Signs Section (E14) with the appropriate time

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

Data Collector
- EMS personnel if Cardiac Arrest (E11_01) is answered Yes

Other Associated Elements
E00   Common Null Values   **E01_01** Patient Care Report Number

References in NHTSA Version 1
Desirable Element 67   Rhythm at Destination

Section   E12

Medical History

BARRIERS TO PATIENT CARE

E12_01

Data Format [combo] multiple-choice   *National Element*

Definition
Indication of whether or not there were any patient specific barriers to serving the patient at the scene

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *BarriersToPatientCare*
Multiple Entry Configuration Yes   **Accepts Null**   Yes
Required in XSD Yes

Field Values
-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
2600 Developmentally Impaired	**2605** Hearing Impaired
2610 Language	**2615** None
2620 Physically Impaired	**2625** Physically Restrained
2630 Speech Impaired	**2635** Unattended or Unsupervised (including minors)
2640 Unconscious	

Uses
- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on any barriers to patient care
- Allows data to describe any barriers to care within the EMS agency which is important to many federal initiatives

Data Collector
- EMS personnel

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number

References in NHTSA Version 1
Desirable Element 56   Factors Affecting EMS Delivery of Care

References to Other Databases
- NFIRS 5.0 EMS Module; Title: Human Factors; Describes the human factors that contributed to the patient's injury; Pick-List: Asleep = 1, Unconscious = 2, Possibly Impaired by Alcohol = 3, Possibly Impaired by Other Drug or Chemical = 4, Possibly Mentally Disabled = 5, Physically Disabled = 6, Physically Restrained = 7, Unattended or Unsupervised Person, Included are too young to act = 8, None or No Human Factors = N

MEDICATION ALLERGIES

E12_08

Data   [combo] multiple-choice

Definition
The patient's medication allergies

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *MedicationAllergies*
Multiple Entry Configuration   Yes   **Accepts Null Values** Yes
Required in XSD No   **Minimum Constraint   2**   **Maximum Constraint   30**

Field Values
-25 Not Applicable	**-20** Not Recorded
-15 Not Reporting	**-10** Not Known
-5 Not Available	● Relevant Value for Data Element & Patient Care
● NKDA (No Known Drug Allergies)	

Additional Information
- A Drug List should be created to serve as a list box which can contain any generic or trade name of a drug approved by the FDA
- Alternatively, the drugs may be entered as a multiple entry text configuration

Uses
- Part of an EMS Medical Record

Data Collector
- EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number
E06_01	Last Name		

MEDICAL/SURGICAL HISTORY

Data   [combo or text] multiple-choice

Definition
   The patient's pre-existing medical and surgery history of the patient

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *MedicalSurgicalHistory*
Multiple Entry Configuration   Yes   **Accepts Null Values** Yes
Required in XSD No   **Minimum Constraint**   2   **Maximum Constraint**   30

Field Values
   -25 Not Applicable   **-20** Not Recorded
   -15 Not Reporting   **-10** Not Known
   -5 Not Available   ● Relevant Value for Data Element & Patient Care

Additional Information
   ● A Medical/Surgical History list should be created to serve as a listbox which can contain any ICD-9 coded diagnosis or procedure
   ● The field should store the values of the ICD-9 codes since CMS has not adopted ICD-10 level codes at the time of this document

Uses
   ● Part of an EMS Medical Record

Data Collector
   ● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
   E00   Common Null Values   **E01_01**   Patient Care Report Number
   E06_01 Last Name

References in NHTSA Version 1
Essential   Element 51   Pre-Existing Condition

CURRENT MEDICATIONS

Data   [combo or text] multiple-choice

Definition
   The medications the patient currently takes

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *CurrentMedicationName*
Multiple Entry Configuration   Yes, via structure   **Accepts Null Values** No
Required in XSD No   **Minimum Constraint**   2   **Maximum Constraint**   30
XSD Structure: (1) E12_14, E12_15, E12_16, and E12_17 are all members of E12_14_0 Current Medications Structure. (2) E12_15 and E12_16 are members of E12_15_0 Current Medication Dose Structure

Field Values
   ● Relevant Value for Data Element & Patient Care

Additional Information
   ● A Drug List should be created to serve as a listbox which can contain any generic or trade name of a drug approved by the FDA
   ● Alternatively, the drugs may be entered as a multiple entry text configuration
   ● The Drug List should also include "None"

Uses
   ● Part of an EMS Medical Record

Data Collector
   ● EMS personnel or electronically through linkage with a pre-existing Patient Care Report or hospital database

Other Associated Elements
   E01_01   Patient Care Report Number   **E12_15**   Current Medication Dose
   E12_16   Current Medication Dosage Unit   **E12_17**   Current Medication Administration Route

ALCOHOL/DRUG USE INDICATORS

E12_19

Data Format [combo] multiple-choice

National Element

Definition

Indicators for the potential use of Alcohol or Drugs by the patient.

XSD Data Type *xs:integer* **XSD Domain (Simple Type)** *AlcoholDrugUseIndicators*
Multiple Entry Configuration Yes **Accepts Null** Yes
Required in XSD Yes

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
2985 Smell of Alcohol on Breath	**2990** Patient Admits to Alcohol Use
2995 Patient Admits to Drug Use	**3000** Alcohol and/or Drug Paraphernalia at Scene

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on alcohol/drug use indicators
- Allows data to describe Alcohol and Drug use within the EMS patient population

Data Collector

- EMS personnel

Other Associated Elements

E00   Common Null Values **E01_01**   Patient Care Report Number

References in NHTSA Version 1

Essential   Element 57   Suspected Alcohol/Drug Use

References to Other Databases

- NFIRS 5.0 EMS Module; Title: Human Factors; Describes the human factors that contributed to the patient's injury; Pick-List: Asleep = 1, Unconscious = 2, Possibly Impaired by Alcohol = 3, Possibly Impaired by Other Drug or Chemical = 4, Possibly Mentally Disabled = 5, Physically Disabled = 6, Physically Restrained = 7, Unattended or Unsupervised Person, Included are too young to act = 8, None or No Human Factors = N

Assessment/ Vital Signs

DATE/TIME VITAL SIGNS TAKEN

E14_01

Data Format [date/time]

Definition
   Date/Time Vital Signs Taken

XSD Data Type *xs:dateTime*   **XSD Domain (Simple Type)** *DateTime*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD No   **Minimum Constraint** **1,990**   **Maximum Constraint** **2,030**
   XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values
   ● Relevant Value for Data Element & Patient Care

Additional Information
   ● If the date/time is electronically stored within a database or transmitted via XML as a "tick", the referenced variables may also be used
   ● Multiple Entry Configuration to allow multiple sets of Vital Signs

Uses
   ● Part of an EMS Medical Record
   ● Provides documentation of Assessment and Care
   ● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
   ● EMS personnel or may be provided electronically through a medical device

Other Associated Elements
   E01_01   Patient Care Report Number

References to Other Databases
   ● NFIRS 5.0 EMS Module; Title: Patient Pulse; Presence of a Pulse at the time of patient transfer to another service.; Pick-List: Pulse on Transfer = 1, No; Pulse of Transfer = 2

CARDIAC RHYTHM

E14_03

Data   [combo] multiple-choice

Definition
   The initial cardiac rhythm of the patient as interpreted by EMS personnel

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *CardiacRythm*
Multiple Entry Configuration   (1) Yes, via structure. (2)   **Accepts Null Values** Yes
                                    Yes for each E14_01
                                    Date/Time

Required in XSD No
   XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values

-25 Not Applicable	**-20** Not Recorded
-15 Not Reporting	**-10** Not Known
-5 Not Available	**3005** 12 Lead ECG-Anterior Ischemia
3010 12 Lead ECG-Inferior Ischemia	**3015** 12 Lead ECG-Lateral Ischemia
3020 Agonal/Idioventricular	**3025** Artifact
3030 Asystole	**3035** Atrial Fibrillation/Flutter
3040 AV Block-1st Degree	**3045** AV Block-2nd Degree-Type 1
3050 AV Block-2nd Degree-Type 2	**3055** AV Block-3rd Degree
3060 Junctional	**3065** Left Bundle Branch Block
3070 Normal Sinus Rhythm	**3075** Other
3080 Paced Rhythm	**3085** PEA
3090 Premature Atrial Contractions	**3095** Premature Ventricular Contractions
3100 Right Bundle Branch Block	**3105** Sinus Arrhythmia
3110 Sinus Bradycardia	**3115** Sinus Tachycardia
3120 Supraventricular Tachycardia	**3125** Torsades De Points
3130 Unknown AED Non-Shockable Rhythm	**3135** Unknown AED Shockable Rhythm
3140 Ventricular Fibrillation	**3145** Ventricular Tachycardia

Uses
   ● Part of an EMS Medical Record
   ● Provides documentation of Assessment and Care
   ● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
   ● EMS personnel or may be provided electronically through a medical device

Other Associated Elements
   E00   Common Null Values   **E01_01** Patient Care Report Number
   E14_01 Date/Time Vital Signs Taken

References in NHTSA Version 1
Desirable Element 66   Initial Cardiac Rhythm

SBP (SYSTOLIC BLOOD PRESSURE)

Data Format [number]

Definition
   The patient's systolic blood pressure

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *SBP*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD No   **Minimum Constraint   0   Maximum Constraint   400**
XSD Structure: (1) Each element is section E14 is associated with a E14_01 Date/Time. (2) E14_04, E14_05, and E14_06 are all members of E14_04_0 Blood Pressure Structure

Field Values
   ● Relevant Value for Data Element & Patient Care

Additional Information
   ●Could be collected from Device Systolic Blood Pressure (E21_14)

Uses
   ●Part of an EMS Medical Record
   ●Provides documentation of Assessment and Care
   ●Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
   ●EMS personnel or may be provided electronically through a medical device

Other Associated Elements
   E01_01   Patient Care Report Number   **E14_01**   Date/Time Vital Signs Taken
   E14_05   DBP (Diastolic Blood Pressure)   **E14_06**   Method of Blood Pressure Measurement

References in NHTSA Version 1
Essential   Element 70   Systolic Blood Pressure

DBP (DIASTOLIC BLOOD PRESSURE)

Data Format [number]

Definition
   The patient's diastolic blood pressure

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *DBP*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD No   **Minimum Constraint   0   Maximum Constraint   300**
XSD Structure: (1) Each element is section E14 is associated with a E14_01 Date/Time. (2) E14_04, E14_05, and E14_06 are all members of E14_04_0 Blood Pressure Structure

Field Values
   ● Relevant Value for Data Element & Patient Care

Additional Information
   ●Could be collected from Device Diastolic Blood Pressure (E21_15)

Uses
   ●Part of an EMS Medical Record
   ●Provides documentation of Assessment and Care
   ●Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
   ●EMS personnel or may be provided electronically through a medical device

Other Associated Elements
   E01_01   Patient Care Report Number   **E14_01**   Date/Time Vital Signs Taken
   E14_04   SBP (Systolic Blood Pressure)   **E14_06**   Method of Blood Pressure Measurement

References in NHTSA Version 1
Essential   Element 71   Diastolic Blood Pressure

PULSE RATE

Data Format [number]

Definition
   The patient's pulse rate, palpated or auscultated, expressed as a number per minute

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *PulseRate*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD No   **Minimum Constraint**   0   **Maximum Constraint**   500
   XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values
   ●   Relevant Value for Data Element & Patient Care

Additional Information
   ●Could be collected from Device Pulse Rate (E21_13)

Uses
   ●Part of an EMS Medical Record
   ●Provides documentation of Assessment and Care
   ●Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
   ●EMS personnel or may be provided electronically through a medical device

Other Associated Elements
   E01_01   Patient Care Report Number   **E14_01**   Date/Time Vital Signs Taken

References in NHTSA Version 1
Essential   Element 65   Pulse Rate

References to Other Databases
   ● NFIRS 5.0 EMS Module; Title: Patient Pulse; Presence of a Pulse at the time of patient transfer to another service.; Pick-
            List: Pulse on Transfer = 1, No; Pulse of Transfer = 2

PULSE OXIMETRY

Data Format [number]

Definition
   The patient's oxygen saturation

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *PulseOximetry*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD No   **Minimum Constraint**   0   **Maximum Constraint**   100
   XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values
   ●   Relevant Value for Data Element & Patient Care

Additional Information
   ●Could be collected from Device Pulse Oximetry (E21_17)

Uses
   ●Part of an EMS Medical Record
   ●Provides documentation of Assessment and Care
   ●Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
   ●EMS personnel or may be provided electronically through a medical device

Other Associated Elements
   E01_01   Patient Care Report Number   **E14_01**   Date/Time Vital Signs Taken

RESPIRATORY RATE

Data Format [number]

Definition

The patient's respiratory rate expressed as a number per minute

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *RespiratoryRate*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD No   **Minimum Constraint   0   Maximum Constraint   100**
XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values
- Relevant Value for Data Element & Patient Care

Additional Information
- Could be collected from Device Respiratory Rate (E21_16)

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel or may be provided electronically through a medical device

Other Associated Elements
E01_01   Patient Care Report Number   **E14_01**   Date/Time Vital Signs Taken

References in NHTSA Version 1
Essential   Element 68   Respiratory Rate

GLASGOW COMA SCORE-EYE

Data Format [number]

Definition

The patient's Glasgow Coma Score Eye opening

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *GCSEye*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD No   **Minimum Constraint   1   Maximum Constraint   4**
XSD Structure: (1) Each element is section E14 is associated with a E14_01 Date/Time. (2) E14_15, E14_16, E14_17, and E14_18
are all members of E14_15_0 GCS Score Structure

Field Values
- For All Age Groups: 1 = Does Not Open Eyes
- For All Age Groups: 2 = Opens Eyes to painful stimulation
- For All Age Groups: 3 = Opens Eyes to verbal stimulation
- For All Age Groups: 4 = Opens Eyes spontaneously

Additional Information
- Can be configured as a single choice list box

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
E01_01   Patient Care Report Number   **E14_01**   Date/Time Vital Signs Taken
E14_16   Glasgow Coma Score-Verbal   **E14_17**   Glasgow Coma Score-Motor
E14_18   Glasgow Coma Score-Qualifier   **E14_19**   Total Glasgow Coma Score

References in NHTSA Version 1
Essential   Element 73   Glasgow Eye Opening Component

GLASGOW COMA SCORE-VERBAL

Data Format [number]

Definition
The patient's Glasgow Coma Score Verbal

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *GCSVerbal*
Multiple Entry Configuration Yes, via structure   **Accepts Null** Yes, but null value is blank or empty
Required in XSD No   **Minimum Constraint** 1   **Maximum Constraint** 5
XSD Structure: (1) Each element is section E14 is associated with a E14_01 Date/Time. (2) E14_15, E14_16, E14_17, and E14_18 are all members of E14_15_0 GCS Score Structure

Field Values
- Patients 0-23 months: 1 = None
- Patients 0-23 months: 2 = Persistent cry
- Patients 0-23 months: 3 = Inappropriate cry
- Patients 0-23 months: 4 = Cries, inconsolable
- Patients 0-23 months: 5 = Smiles, coos, cries appropriately

- Patients 2-5 years: 1 = None
- Patients 2-5 years: 2 = Grunts
- Patients 2-5 years: 3 = Cries and/or screams
- Patients 2-5 years: 4 = Inappropriate words
- Patients 2-5 years: 5 = Appropriate words

- Patients >5 years: 1 = None
- Patients >5 years: 2 = Non-specified sounds
- Patients >5 years: 3 = Inappropriate words
- Patients >5 years: 4 = Confused conversation or speech
- Patients >5 years: 5 = Oriented and appropriate speech

Additional Information
- Can be configured as a single choice list box

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
E01_01	Patient Care Report Number	E14_01	Date/Time Vital Signs Taken
E14_15	Glasgow Coma Score-Eye	E14_17	Glasgow Coma Score-Motor
E14_18	Glasgow Coma Score-Qualifier	E14_19	Total Glasgow Coma Score

References in NHTSA Version 1
Essential Element 74a   Glasgow Verbal Component For patients >5 years
Essential Element 74b   Glasgow Verbal Component For patients 2-5 years
Essential Element 74c   Glasgow Verbal Component for patients 0-23 months

GLASGOW COMA SCORE-MOTOR

Data Format [number]

Definition
The patient's Glasgow Coma Score Motor

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *GCSMotor*
Multiple Entry Configuration Yes, via structure   **Accepts Null** Yes, but null value is blank or empty
Required in XSD No   **Minimum Constraint** 1   **Maximum Constraint** 6
XSD Structure: (1) Each element is section E14 is associated with a E14_01 Date/Time. (2) E14_15, E14_16, E14_17, and E14_18 are all members of E14_15_0 GCS Score Structure

Field Values
- Patients up to 5 years: 1 = None
- Patients up to 5 years: 2 = Extensor posturing in response to painful stimulation
- Patients up to 5 years: 3 = Flexor posturing in response to painful stimulation
- Patients up to 5 years: 4 = General withdrawal in response to painful stimulation
- Patients up to 5 years: 5 = Localization of painful stimulation
- Patients up to 5 years: 6 = Spontaneous appropriate

- Patients >5 years: 1 = None
- Patients >5 years: 2 = Extensor posturing in response to painful stimulation
- Patients >5 years: 3 = Flexor posturing in response to painful stimulation
- Patients >5 years: 4 = General withdrawal in response to painful stimulation
- Patients >5 years: 5 = Localization of painful stimulation
- Patients >5 years: 6 = Obeys commands with motor responses

Additional Information
- Can be configured as a single choice list box

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
E01_01	Patient Care Report Number	E14_01	Date/Time Vital Signs Taken
E14_15	Glasgow Coma Score-Eye	E14_16	Glasgow Coma Score-Verbal
E14_18	Glasgow Coma Score-Qualifier	E14_19	Total Glasgow Coma Score

References in NHTSA Version 1
Essential Element 75a   Glasgow Motor Component For patients >5 years
Essential Element 75b   Glasgow Motor Component For patients up to 5 years

GLASGOW COMA SCORE-QUALIFIER

Data Format [combo] single-choice

Definition
Documentation of factors which make the GCS score more meaningful.

XSD Data Type *xs:integer* **XSD Domain (Simple Type)** *GCSQualifier*
Multiple Entry Configuration Yes, via structure **Accepts Null** Yes
Required in XSD No
XSD Structure: (1) Each element is section E14 is associated with a E14_01 Date/Time. (2) E14_15, E14_16, E14_17, and E14_18 are all members of E14_15_0 GCS Score Structure

Field Values
-25 Not Applicable
-5 Not Available

-10 Not Known
3210 Initial GCS has legitimate values without interventions such as intubation and sedation

3215 Patient Chemically Sedated
3225 Patient Intubated and Chemically Paralyzed

3220 Patient Intubated

Additional Information
● Can be configured as a single choice list box

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number
E14_01	Date/Time Vital Signs Taken	**E14_15**	Glasgow Coma Score-Eye
E14_16	Glasgow Coma Score-Verbal	**E14_17**	Glasgow Coma Score-Motor
E14_19	Total Glasgow Coma Score		

TOTAL GLASGOW COMA SCORE

Data Format [number]

Definition
The patient's total Glasgow Coma Score

XSD Data Type *xs:integer* **XSD Domain (Simple Type)** *TotalGCS*
Multiple Entry Configuration Yes, via structure **Accepts Null** Yes, but null value is blank or empty
Required in XSD No **Minimum Constraint** 1 **Maximum Constraint** 15
XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values
● Relevant Value for Data Element & Patient Care

Additional Information
● Calculated from Glasgow Coma Score-Eye (E14_15), Glasgow Coma Score-Verbal (E14_16), and Glasgow Coma Score-Motor (E14_17)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel but could be auto-generated based on the information entered into an electronic patient care report

Other Associated Elements
E01_01	Patient Care Report Number	**E14_01**	Date/Time Vital Signs Taken
E14_15	Glasgow Coma Score-Eye	**E14_16**	Glasgow Coma Score-Verbal
E14_17	Glasgow Coma Score-Motor	**E14_18**	Glasgow Coma Score-Qualifier

References in NHTSA Version 1
Desirable Element 76   Glasgow Coma Score (Total)

LEVEL OF RESPONSIVENESS

Data Format [combo] single-choice

Definition
The patients level of responsiveness

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *LevelOfResponsiveness*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes
Required in XSD No
XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values
-25 Not Applicable	**-10** Not Known
-5 Not Available	**3255** Alert
3260 Verbal	**3265** Painful
3270 Unresponsive	

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number
E14_01	Date/Time Vital Signs Taken		

STROKE SCALE

Data Format [combo] single-choice

Definition
The patient's Los Angeles or Cincinnati Stroke Scale Results

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *StrokeScale*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes
Required in XSD No
XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values
-25 Not Applicable	**-10** Not Known
-5 Not Available	**3275** Cincinnati Stroke Scale Negative
3280 Cincinnati Stroke Scale Non-conclusive	**3285** Cincinnati Stroke Scale Positive
3290 LA Stroke Scale Negative	**3295** LA Stroke Scale Non-conclusive
3300 LA Stroke Scale Positive	

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number
E14_01	Date/Time Vital Signs Taken		

REVISED TRAUMA SCORE

E14_27

Data Format [number]

Definition
   The patient's Revised Trauma Score

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *RTS*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes, but null value is blank or empty
Required in XSD No   **Minimum Constraint**   0   **Maximum Constraint**   12
   XSD Structure: Each element is section E14 is associated with a E14_01 Date/Time

Field Values
   ● Relevant Value for Data Element & Patient Care

Additional Information
   ● Calculated based on 3 components
   ● Can be auto-calculated from Respiratory Rate (E14_11), Systolic Blood Pressure (E14_04), and Total GCS (E14_19), if all
      three components are documented at the same Time (E14_01)
   ● Neurological Component: 4 = Glasgow coma score 13 - 15, 3 = Glasgow coma score 9 - 12, 2 = Glasgow coma score 6 -
      8, 1 = Glasgow coma score 4 - 5, 0 = Glasgow coma score 3
   ● Respiratory Rate Component: 4 = 10 - 29 per minute, 3 = >29 per minute, 2 = 6 - 9 per minute, 1 = 1 - 5 per minute, 0 = None
      spontaneous
   ● Systolic Blood Pressure Component: 4 = >89 mm Hg, 3 = 76 - 89 mm Hg , 2 = 50 - 75 mm Hg, 1 = 1 - 49 mm Hg, 0 = No pulse

Uses
   ● Part of an EMS Medical Record
   ● Provides documentation of Assessment and Care
   ● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
   ● EMS personnel but could be auto-generated based on the information entered into an electronic patient care report

Other Associated Elements
   E01_01   Patient Care Report Number   **E14_01**   Date/Time Vital Signs Taken

References in NHTSA Version 1
Desirable Element 77   Revised Trauma Score

Section   E18

Intervention/ Medication

MEDICATION GIVEN

E18_03

Data   [combo] single-choice   *National Element*

Definition
The medication given to the patient

XSD Data Type   *xs:string*   **XSD Domain (Simple Type)** *MedicationsGiven*
Multiple Entry Configuration   Yes, via structure   **Accepts Null Values** Yes
Required in XSD   Yes   **Minimum Constraint**   **2**   **Maximum Constraint**   **30**
XSD Structure: All data elements section E18 are members of the E18 Medication Structure

Field Values
-25 Not Applicable	**-20** Not Recorded
-15 Not Reporting	**-10** Not Known
-5 Not Available	● Relevant Value for Data Element & Patient Care

Additional Information
● List created from Medications (D04_06)

Uses
● Allows data to be sorted based on the medical treatment
● Allows data to describe the medications administered by EMS
● Part of an EMS Medical Record
● Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00	Common Null Values	E01_01	Patient Care Report Number
E18_01	Date/Time Medication Administered	E18_02	Medication Administered Prior to this Units EMS Care
E18_04	Medication Administered Route	E18_05	Medication Dosage
E18_06	Medication Dosage Units	E18_07	Response to Medication
E18_08	Medication Complication	E18_09	Medication Crew Member ID
E18_10	Medication Authorization	E18_11	Medication Authorizing Physician

References in NHTSA Version 1
Essential   Element 80   Medication Name

References to Other Databases
● NFIRS 5.0 EMS Module, Title: Procedures Used, Multi Select List: Airway Insertion = 01, Anti-Shock Trousers = 02, Assisted Ventilation = 03, Bleeding Control = 04, Burn Care = 05, Cardiac Pacing = 06, Cardioversion (defib), Manual = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN

MEDICATION COMPLICATION

E18_08

Data Format   [combo] multiple-choice   *National Element*

Definition
Any complication (abnormal effect on the patient) associated with the administration of the medication to the patient by EMS

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *MedicationComplication*
Multiple Entry Configuration   (1) Yes, via structure. (2) Yes   **Accepts Null**   Yes
                           for each E14_01 Date/Time

Required in XSD   Yes
XSD Structure: All data elements section E18 are members of the E18 Medication Structure

Field Values
-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
4390 None	**4395** Altered Mental Status
4400 Apnea	**4405** Bleeding
4410 Bradycardia	**4415** Diarrhea
4420 Extravasion	**4425** Hypertension
4430 Hyperthermia	**4435** Hypotension
4440 Hypoxia	**4445** Injury
4450 Itching/Urticaria	**4455** Nausea
4460 Other	**4465** Respiratory Distress
4470 Tachycardia	**4475** Vomiting

Uses
● Allows data to be sorted based on medication complication
● Allows data to describe medication complications which occur as a result of EMS treatment
● Part of an EMS Medical Record
● Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00	Common Null Values	E01_01	Patient Care Report Number
E18_01	Date/Time Medication Administered	E18_02	Medication Administered Prior to this Units EMS Care
E18_03	Medication Given	E18_04	Medication Administered Route
E18_05	Medication Dosage	E18_06	Medication Dosage Units
E18_07	Response to Medication	E18_09	Medication Crew Member ID
E18_10	Medication Authorization	E18_11	Medication Authorizing Physician

Intervention/ Procedure

PROCEDURE

E19_03

Data Format [combo] single-choice   *National Element*

Definition
The procedure performed on the patient.

XSD Data Type *xs:decimal*   **XSD Domain (Simple Type)** *Procedure*
Multiple Entry Configuration Yes, via structure   **Accepts Null**   Yes
Required in XSD Yes   **Minimum Constraint** **0**   **Maximum Constraint** **1,000**
XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

Field Values
-25 Not Applicable   **-15** Not Reporting
-10 Not Known   **-5** Not Available
● Relevant Value for Data Element & Patient Care

Additional Information
● List created from Procedures (D04_04)

Uses
● Allows data to be sorted based on the medical treatment
● Allows data to describe the procedures which are performed by EMS
● Part of an EMS Medical Record
● Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● EMS personnel

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number
E19_01	Date/Time Procedure Performed Successfully	**E19_02**	Procedure Performed Prior to this Units EMS Care
E19_04	Size of Procedure Equipment	**E19_05**	Number of Procedure Attempts
E19_06	Procedure Successful	**E19_07**	Procedure Complication
E19_08	Response to Procedure	**E19_09**	Procedure Crew Members ID
E19_10	Procedure Authorization	**E19_11**	Procedure Authorizing Physician

References in NHTSA Version 1
Desirable Element 58   Time of First CPR
Desirable Element 63   Time of First Defibrillatory Shock

References to Other Databases
● NFIRS 5.0 EMS Module, Title: Procedures Used, Multi Select List: Airway Insertion = 01, Anti-Shock Trousers = 02, Assisted Ventilation = 03, Bleeding Control = 04, Burn Care = 05, Cardiac Pacing = 06, Cardioversion (defib), Manual = 07, Chest/Abdominal Thrust = 08, CPR = 09, Cricothyroidotomy = 10, Defibrillation by AED = 11, EKG Monitoring = 12, Extrication = 13, Intubation (EGTA) = 14, Intubation (ET) = 15, IO/IV Therapy = 16, Medications Therapy = 17, Oxygen Therapy = 18, Obstetrical Care/Delivery = 19, Pre-Arrival Instruction = 20, Restrained Patient = 21, Spinal Immobilization = 22, Splinted Extremities = 23, Suction/Aspirate = 24, Other Procedure = 00, No Treatment = NN

● UTSTEIN Arrest after arrival of EMS could be documented by CPR or Defibrillation performed along with the Cardiac Arrest datapoint.; [text] Value or

NUMBER OF PROCEDURE ATTEMPTS

E19_05

Data Format [number]   *National Element*

Definition

The number of attempts taken to complete a procedure or intervention regardless of success

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *NumberOfProcedureAttempts*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes
Required in XSD Yes   **Minimum Constraint** -25   **Maximum Constraint** 100
XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

Field Values

-25 Not Applicable   -15 Not Reporting
-10 Not Known   -5 Not Available
  ● Relevant Value for Data Element & Patient Care

Uses

● Allows data to be sorted based on the medical treatment
● Allows data to describe the procedures which are performed by EMS
● Part of an EMS Medical Record
● Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector

● EMS personnel

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E19_01	Date/Time Procedure Performed Successfully	E19_02	Procedure Performed Prior to this Units EMS Care
E19_03	Procedure	E19_04	Size of Procedure Equipment
E19_06	Procedure Successful	E19_07	Procedure Complication
E19_08	Response to Procedure	E19_09	Procedure Crew Members ID
E19_10	Procedure Authorization	E19_11	Procedure Authorizing Physician

---

PROCEDURE SUCCESSFUL

E19_06

Data Format [combo] single-choice   *National Element*

Definition

Indication of whether or not the procedure performed on the patient was successful

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *YesNoValues*
Multiple Entry Configuration   Yes, via structure   **Accepts Null**   Yes
Required in XSD Yes
XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

Field Values

-25 Not Applicable   -15 Not Reporting
-10 Not Known   -5 Not Available
  0 No   1 Yes

Uses

● Allows data to be sorted based on the medical treatment
● Allows data to describe the procedures performed by EMS with respect to numbers and success rates
● Part of an EMS Medical Record
● Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector

● EMS personnel

Other Associated Elements

E00	Common Null Values	E01_01	Patient Care Report Number
E19_01	Date/Time Procedure Performed Successfully	E19_02	Procedure Performed Prior to this Units EMS Care
E19_03	Procedure	E19_04	Size of Procedure Equipment
E19_05	Number of Procedure Attempts	E19_07	Procedure Complication
E19_08	Response to Procedure	E19_09	Procedure Crew Members ID
E19_10	Procedure Authorization	E19_11	Procedure Authorizing Physician

PROCEDURE COMPLICATION

E19_07

Data Format [combo] multiple-choice   *National Element*

Definition
Any complication associated with the performance of the procedure on the patient

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *ProcedureComplication*

Multiple Entry Configuration   (1) Yes, via structure. (2) Yes   **Accepts Null**   Yes
for each E14_01 Date/Time

Required in XSD   Yes

XSD Structure: Data Elements E19_01 through E19_11 are all members of E19_01_0 Procedure Structure

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
4500 None	**4505** Altered Mental Status
4510 Apnea	**4515** Bleeding
4520 Bradycardia	**4525** Diarrhea
4530 Esophageal Intubation-immediately	**4535** Esophageal Intubation-other
4540 Extravasion	**4545** Hypertension
4550 Hyperthermia	**4555** Hypotension
4560 Hypoxia	**4565** Injury
4570 Itching/Urticaria	**4575** Nausea
4580 Other	**4585** Respiratory Distress
4590 Tachycardia	**4595** Vomiting

Uses
- Allows data to be sorted based on procedure complication
- Allows data to describe procedure complications which occur as a result of EMS treatment as part of a federal initiative to identify and reduce medical errors
- Part of an EMS Medical Record
- Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- EMS personnel

Other Associated Elements

E00	Common Null Values	**E01_01**	Patient Care Report Number
E19_01	Date/Time Procedure Performed Successfully	**E19_02**	Procedure Performed Prior to this Units EMS Care
E19_03	Procedure	**E19_04**	Size of Procedure Equipment
E19_05	Number of Procedure Attempts	**E19_06**	Procedure Successful
E19_08	Response to Procedure	**E19_09**	Procedure Crew Members ID
E19_10	Procedure Authorization	**E19_11**	Procedure Authorizing Physician

---

Section   E20

Disposition

DESTINATION/TRANSFERRED TO, NAME

Data Format [text]

Definition
   The destination the patient was delivered or transferred to

XSD Data Type *xs:string*   **XSD Domain (Simple Type)** *DestinationTransferredToID*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD No   **Minimum Constraint** 2   **Maximum Constraint** 50

Field Values
 -25 Not Applicable   **-10** Not Known
  -5 Not Available   ● Relevant Value for Data Element & Patient Care

Additional Information
   ● Could be an editable single choice list box derived from Hospitals Served (D04_11) and Other Destinations (D04_13)

Uses
   ● A component of the EMS Medical Record: Patient Care Report
   ● Important for grouping or comparing data by Destination location and type which also allows data to be sorted by
     geographic areas in many agencies
   ● Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector
   ● EMS personnel

Other Associated Elements
   E00   Common Null Values   **E01_01**   Patient Care Report Number
   E20_02   Destination/Transferred To, Code

DESTINATION/TRANSFERRED TO, CODE

Data Format [text]

Definition
   The code of the destination the patient was delivered or transferred to, if present and available

XSD Data Type *xs:string*   **XSD Domain (Simple Type)** *DestinationTransferredToCode*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD No   **Minimum Constraint** 2   **Maximum Constraint** 50

Field Values
 -25 Not Applicable   **-10** Not Known
  -5 Not Available   ● Relevant Value for Data Element & Patient Care

Additional Information
   ● Could be an editable single choice list box derived from Hospitals Served (D04_12) and Other Destinations (D04_14)

Uses
   ● A component of the EMS Medical Record: Patient Care Report
   ● Important for grouping or comparing data by Destination location and type which also allows data to be sorted by
     geographic areas in many agencies
   ● Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector
   ● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
   E00   Common Null Values   **E01_01**   Patient Care Report Number
   E20_01   Destination/Transferred To, Name

DESTINATION STREET ADDRESS

E20_03

Data Format [text]

Definition

The street address of the destination the patient was delivered or transferred to

XSD Data Type *xs:string*　　　**XSD Domain (Simple Type)** *StreetAddress*
Multiple Entry Configuration　No　　　　　　**Accepts Null**　　Yes
Required in XSD No　　　　　**Minimum Constraint** 2　　**Maximum Constraint** 30
XSD Structure: E20_03, E20_04, E20_05, and E20_07 are all members of E2-_03_0 Destination Address Structure

Field Values
-25 Not Applicable　　　　　　　　　**-10** Not Known
-5 Not Available　　　　　　　　● 　Relevant Value for Data Element & Patient Care

Uses
● A component of the EMS Medical Record: Patient Care Report
● Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
● Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector
● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number
E20_01	Destination/Transferred To, Name	**E20_04**	Destination City
E20_05	Destination State	**E20_07**	Destination Zip Code

DESTINATION CITY

E20_04

Data Format [combo] single-choice

Definition

The city name of the destination the patient was delivered or transferred to

XSD Data Type *xs:string*　　　**XSD Domain (Simple Type)** *City*
Multiple Entry Configuration　No　　　　　　**Accepts Null**　　Yes
Required in XSD No　　　　　**Minimum Constraint** 2　　**Maximum Constraint** 30
XSD Structure: E20_03, E20_04, E20_05, and E20_07 are all members of E2-_03_0 Destination Address Structure

Field Values
-25 Not Applicable　　　　　　　　　**-10** Not Known
-5 Not Available　　　　　　　　● 　Relevant Value for Data Element & Patient Care

Additional Information
● 5 digit FIPS Code
● Could be filled in from Destination Zip Code (E20_07)

Uses
● A component of the EMS Medical Record: Patient Care Report
● Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
● Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector
● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E00	Common Null Values	**E01_01**	Patient Care Report Number
E20_01	Destination/Transferred To, Name	**E20_03**	Destination Street Address
E20_05	Destination State	**E20_07**	Destination Zip Code

DESTINATION STATE

E20_05

Data Format [combo] single-choice

Definition

The destination State in which the patient was delivered or transferred to

XSD Data Type *xs:string*   **XSD Domain (Simple Type)** *State*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD No   **Minimum Constraint** 2   **Maximum Constraint** 3
XSD Structure: E20_03, E20_04, E20_05, and E20_07 are all members of E2-_03_0 Destination Address Structure

Field Values
-**25** Not Applicable   -**10** Not Known
-**5** Not Available   ● Relevant Value for Data Element & Patient Care

Additional Information
● 2 digit FIPS numeric code (Not State abbreviation)
● Could be filled in from Destination Zip Code (E20_07)

Uses
● A component of the EMS Medical Record: Patient Care Report
● Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
● Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector
● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E00   Common Null Values   **E01_01**   Patient Care Report Number
E20_01   Destination/Transferred To, Name   **E20_03**   Destination Street Address
E20_04   Destination City   **E20_07**   Destination Zip Code

DESTINATION ZIP CODE

E20_07

Data Format [text]   *National Element*

Definition

The destination zip code in which the patient was delivered or transferred to

XSD Data Type *xs:string*   **XSD Domain (Simple Type)** *Zip*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes   **Minimum Constraint** 2   **Maximum Constraint** 10
XSD Structure: E20_03, E20_04, E20_05, and E20_07 are all members of E2-_03_0 Destination Address Structure

Field Values
-**25** Not Applicable   -**15** Not Reporting
-**10** Not Known   -**5** Not Available
● Relevant Value for Data Element & Patient Care

Additional Information
● Can be 5 or 9 digit Zip Code

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the destination location
● Allows data to describe patient's geographic destination
● Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
● Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector
● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements
E00   Common Null Values   **E01_01**   Patient Care Report Number
E20_01   Destination/Transferred To, Name   **E20_03**   Destination Street Address
E20_04   Destination City   **E20_05**   Destination State

DESTINATION GPS LOCATION

E20_08

Data Format [text]

Definition

The destination GPS coordinates to which the patient was delivered or transferred to

XSD Data Type *xs:decimal*   **XSD Domain (Simple Type)** *GPSLocation*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD No

XSD Attributes: Latitude and Longitude are each stored as a separate attribute

Field Values

● Relevant Value for Data Element & Patient Care

Uses

● Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies
● Provides information on overall service area, patterns and times for agency configuration and evaluation

Data Collector

● EMS agency or may be electronically provided through the 911 or dispatch center

Other Associated Elements

E01_01 Patient Care Report Number   **E20_01** Destination/Transferred To, Name

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INCIDENT/PATIENT DISPOSITION

E20_10

Data Format [combo] single-choice   *National Element*

Definition

Type of disposition treatment and/or transport of the patient.

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *IncidentPatientDisposition*
Multiple Entry Configuration   No   **Accepts Null**   No
Required in XSD Yes

Field Values

4815 Cancelled   **4820** Dead at Scene
4825 No Patient Found   **4830** No Treatment Required
4835 Patient Refused Care   **4840** Treated and Released
4845 Treated, Transferred Care   **4850** Treated, Transported by EMS
4855 Treated, Transported by Law Enforcement   **4860** Treated, Transported by Private Vehicle

Uses

● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted based on the EMS disposition
● Allows data to describe EMS patient's disposition

Data Collector

● EMS personnel

Other Associated Elements

E01_01 Patient Care Report Number

References in NHTSA Version 1

Essential Element 47   Incident/Patient Disposition

References to Other Databases

● NFIRS 5.0 EMS Module; Title: Disposition; Pick-List: FD Transport to Emergency Care Facility (ECF) = 1, Non-FD Transport = 2, Non-FD Transport with FD Attendant = 3, Non-Emergency Transfer = 4, Other = O, Not Transported under EMS = N

Section E20   Disposition   **Page 151 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Section E20   Disposition   **Page 152 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

TRANSPORT MODE FROM SCENE

E20_14

Data Format [combo] single-choice   *National Element*

Definition

Indication whether or not lights and/or sirens were used on the vehicle while leaving scene

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *TransportModeFromScene*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD   Yes

Field Values

  -25 Not Applicable   **-15** Not Reporting
  -10 Not Known   **-5** Not Available
  4955 Initial Lights and Sirens, Downgraded to No Lights or Sirens   **4960** Initial No Lights or Sirens, Upgraded to Lights and Sirens

  4965 Lights and Sirens   **4970** No Lights or Sirens

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the transportation mode
- Allows data to describe transportation mode used by EMS

Data Collector

- EMS personnel

Other Associated Elements

  E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 46   Lights and Sirens used from the Scene

REASON FOR CHOOSING DESTINATION

E20_16

Data Format [combo] single-choice   *National Element*

Definition

The reason the unit chose to deliver or transfer the patient to the destination

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *ReasonForChoosingDestination*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD   Yes

Field Values

  -25 Not Applicable   **-15** Not Reporting
  -10 Not Known   **-5** Not Available
  4990 Closest Facility (none below)   **4995** Diversion
  5000 Family Choice   **5005** Insurance Status
  5010 Law Enforcement Choice   **5015** On-Line Medical Direction
  5020 Other   **5025** Patient Choice
  5030 Patient's Physicians Choice   **5035** Protocol
  5040 Specialty Resource Center

Uses

- A component of the EMS Medical Record: Patient Care Report
- Allows data to be sorted based on the destination choice
- Allows data to give a reason for choosing the patient's destination which is important to document from a specialty care agency and diversion/overcrowding perspective

Data Collector

- EMS personnel

Other Associated Elements

  E00   Common Null Values   **E01_01**   Patient Care Report Number

References in NHTSA Version 1
Essential   Element 45   Destination Determination

TYPE OF DESTINATION

E20_17

Data Format [combo] single-choice

National Element

Definition
The type of destination the patient was delivered or transferred to

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *TypeOfDestination*
Multiple Entry Configuration No   **Accepts Null** Yes
Required in XSD Yes

Field Values
-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
5045 Home	**5050** Hospital
5055 Medical Office/Clinic	**5060** Morgue
5065 Nursing Home	**5070** Other
5075 Other EMS Responder (air)	**5080** Other EMS Responder (ground)
5085 Police/Jail	

Uses
● A component of the EMS Medical Record: Patient Care Report
● Allows data to be sorted or grouped based on the EMS transports destination type
● Allows data to describe EMS patient's destination type

Data Collector
● EMS personnel

Other Associated Elements
E00	Common Null Values	**E01_01** Patient Care Report Number
E20_01	Destination/Transferred To, Name	

References in NHTSA Version 1
Essential   Element 44   Destination/Transferred To

Section E21

Medical Device Data

WAVEFORM GRAPHIC TYPE

E21_03

Data [text]

Definition

The type of waveform file stored in Waveform Graphic (E21.4)

XSD Data Type *xs:integer* **XSD Domain (Simple Type)** *WaveformGraphicType*
Multiple Entry Configuration Yes, as associated with **Accepts Null Values**No
E21_01 Date/Time

Required in XSD No
XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time. (2) E21_03 and E21_04 are elements of E23_03_0 Waveform Structure.

Field Values
5200 JPG **5205** PDF

Additional Information
● Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01 Patient Care Report Number **E21_01** Event Date/Time
E21_02 Medical Device Event Name **E21_04** Waveform Graphic

WAVEFORM GRAPHIC

E21_04

Data [binary]

Definition

The graphic waveform file in a PDF or JPG format.

XSD Data Type *xs:base64Binary* **XSD Domain (Simple Type)** *WaveformGraphic*
Multiple Entry Configuration Yes, as associated with **Accepts Null Values**No
E21_01 Date/Time

Required in XSD No
XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time. (2) E21_03 and E21_04 are elements of E23_03_0 Waveform Structure.

Field Values
● Relevant Value for Data Element & Patient Care

Additional Information
● Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01 Patient Care Report Number **E21_01** Event Date/Time
E21_02 Medical Device Event Name **E21_03** Waveform Graphic Type

Section E21 **Medical Device Data** **Page 157 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

Section E21 **Medical Device Data** **Page 158 of 166**
MATRIS Version 1.0 (based on 2006 NHTSA Uniform PreHospital Dataset V.2.2.1)

AED, PACING, OR CO2 MODE

Data Format [text]

Definition

The mode of operation the device is operating in during the defibrillation, pacing, or rhythm analysis by the device (if appropriate for the event)

XSD Data Type *xs:integer* **XSD Domain (Simple Type)** *AEDPacingOrCO2Mode*
Multiple Entry Configuration Yes, via structure **Accepts Null** No
Required in XSD No
XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

Field Values

5210 Automated **5215** Manual
5220 Advisory **5225** Demand
5230 Sensing **5235** Mid-Stream
5240 Side-Stream

Additional Information
● Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01 Patient Care Report Number **E21_01** Event Date/Time
E21_02 Medical Device Event Name

ECG LEAD

Data Format [text]

Definition

The lead or source which the medical device used to obtain the rhythm (if appropriate for the event)

XSD Data Type *xs:integer* **XSD Domain (Simple Type)** *ECGLead*
Multiple Entry Configuration Yes, via structure **Accepts Null** No
Required in XSD No
XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

Field Values

5245 I **5250** II
5255 III **5260** AVR
5265 AVL **5270** AVF
5275 V1 **5280** V2
5285 V3 **5290** V4
5295 V5 **5300** V6
5305 Paddle

Additional Information
● Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

Uses
● Part of an EMS Medical Record
● Provides documentation of Assessment and Care
● Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
● Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01 Patient Care Report Number **E21_01** Event Date/Time
E21_02 Medical Device Event Name

ECG INTERPRETATION

Data [text]

Definition

The interpretation of the rhythm by the device (if appropriate for the event)

XSD Data Type *xs:string*   **XSD Domain (Simple Type)** *ECGInterpretation*
Multiple Entry Configuration Yes, via structure   **Accepts Null Values**No
Required in XSD No   **Minimum Constraint** 1   **Maximum Constraint** 2,000
XSD Structure: (1) Each element is section E21 is associated with a E21_01 Date/Time.

Field Values
- Relevant Value for Data Element & Patient Care

Additional Information
- Associated with Event Date/Time (E21_01) and only if appropriate for the Medical Device Event (E21_02)

Uses
- Part of an EMS Medical Record
- Provides documentation of Assessment and Care
- Used in Quality Management for the evaluation of Care and EMS Agency Performance

Data Collector
- Medical device and electronically transmitted to the EMS database for further use

Other Associated Elements
E01_01 Patient Care Report Number   **E21_01** Event Date/Time
E21_02 Medical Device Event Name

Section E22

Outcome and Linkage

EMERGENCY DEPARTMENT DISPOSITION

E22_01

Data Format [combo] single-choice   *National Element*

Definition

The known disposition of the patient from the Emergency Department (ED)

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *EmergencyDepartmentDisposition*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
5335 Admitted to Hospital Floor	**5340** Admitted to Hospital ICU
5345 Death	**5350** Not Applicable (Not Transported to ED)
5355 Released	**5360** Transferred

Uses

● Allows data to be sorted based on the EMS patient outcome
● Allows data to describe EMS patient outcome

Data Collector

● EMS Agency: Could be collected by EMS Administration or electronically provided through linkage with hospital databases

Other Associated Elements

E00	Common Null Values	**E01_01**	Patient Care Report Number

HOSPITAL DISPOSITION

E22_02

Data Format [combo] single-choice   *National Element*

Definition

Indication of how the patient was dispositioned from the hospital, if admitted.

XSD Data Type   *xs:integer*   **XSD Domain (Simple Type)** *HospitalDisposition*
Multiple Entry Configuration   No   **Accepts Null**   Yes
Required in XSD Yes

Field Values

-25 Not Applicable	**-15** Not Reporting
-10 Not Known	**-5** Not Available
5365 Death	**5370** Discharged
5375 Transfer to Hospital	**5380** Transfer to Nursing Home
5385 Transfer to Other	**5390** Transfer to Rehabilitation Facility

Uses

● Allows data to be sorted based on the EMS patient outcome
● Allows data to describe EMS patient outcome

Data Collector

● EMS Agency: Could be collected by EMS Administration or electronically provided through linkage with hospital databases

Other Associated Elements

E00	Common Null Values	**E01_01**	Patient Care Report Number

References to Other Databases

● UTSTEIN Title: Survived Event to ED/ICU; Admitted to ED, Admitted to ICU

Miscellaneous

SUSPECTED INTENTIONAL, OR UNINTENTIONAL DISASTER

Data Format [combo] multiple-choice

Definition

Suspicion of the listed multi-casualty or domestic terrorism causes.

XSD Data Type *xs:integer*   **XSD Domain (Simple Type)** *SuspectedIntentionalOrUnintentionalDisaster*
Multiple Entry Configuration Yes   **Accepts Null** Yes
Required in XSD No

Field Values

-25 Not Applicable	**-10** Not Known
-5 Not Available	**5470** Biologic Agent
5475 Building Failure	**5480** Chemical Agent
5485 Explosive Device	**5490** Fire
5495 Hostage Event	**5500** Mass Gathering
5505 Nuclear Agent	**5510** Radioactive Device
5515 Secondary Destructive Device	**5520** Shooting/Sniper
5525 Vehicular	**5530** Weather

Uses

● May assist in the tracking and identification of Disaster or Terrorism related events

Data Collector

● EMS personnel

Other Associated Elements

E00   Common Null Values   **E01_01**   Patient Care Report Number

Index to MATRIS

Draft Version 1.1